A REGION WITH A FUTURE

A DRAFT STRATEGY FOR THE SOUTH WEST

SOUTH WEST ECONOMIC PLANNING COUNCIL



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The basis of a regional strategy

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Foreword

We have given this report on the South West Economic Pleaning Region the title A Region with a Future. All regions have a future and all plenning is about the future. We have approprinted this title for the South West because it host sums up the mouseon of this proof. If the South West has a history to be proud of, we can also be thankful for a past which has left a specious land lergely unspoiled. Now, with the 21st century only a generation sheed and the courant's possitiation arousing in numbers wealth and mobility we can former the South West as a Region in which more and more people in the future will want to five, work and play. The primary task of planning in the Region is to enticipate that demend. The prospect is exciting and challenges the impolnations of all who share in the responsibility

This is made to an examination. West prosents on or more immediate planning sease. Most of the report is about the period between now and 1961 and the procedure when the sease already or can be foreseen to eller within that already or can be foreseen to eller within that already or can be foreseen to eller within that shows of the procedure of the period of the properties of the problems and we have those into the forese properties and we have made already within the problems and recommend delice within the problems and recommend delice within the problems and account of the problems are problems.

The report has been prepared by the South West Bonomic Planning Council. The Gound have been genetly assisted by the South West Economic Planning Board and by the government departments represented thewen, but the Council stone are responsible for the presentation of the deta, the conclusions dissive next the

The report is the corporate responsibility of the Council shared by all members, and all members are in broad agreement with its content as a basis for discussion in the Region. While the Council have worked hard to neigh agreement throughout, however, it would be unfair to suggest that every member subscribas to every sentance; nor would it be reasonable, seing that many members of a Council lere also members of authorities and cognisations in the Region which will be expected to consider the report and themselves pronounce corrocate views.

The report is meet then engineal study but also than engineal than the called it is regional sturtingly because it sets out the lines along which in the Countrils view, the deconmise and shapited planning of the South West had study which in less than the study process. But it is a chief at stategy, Central government may not spee with perior. It is apprehimment may not spee with perior and stategard of other applications may complete with the stategard of other specific may complete with the stategard of other specific may complete with the stategard of other specific may be information and are entitlepted events (the Yorny Ceryon distance occurred parts as the report was being com-

nlerorf). The immediate step is to have the whole report thoroughly dehated in the Benjon-by local authorities, the representative hadies of industry, commerce and agriculture, and all the other organisations concerned with the economic and sociel life of the South West, Reference is made in the report to consultation and cooperation with a number of these on particular metters. We shall welcome comments from all and from any members of the public who care to address their comments to us, so that we mey take appount of their views in our future work. Communications should be addressed, in writing, to the Secretary of the South West Economic Planning Council at the eddress shown below.



Professor R. C. Trees Planning Count Chairman The Policy BRISTOL 1

1 Introduction

PARTI THE REGION AMD REGIONAL PLANNING

The Region end a regional plen

1. Four main features combine to distinguish the South West Economic Planning Region from its fellows. They are its large size and great length; its large areas of natural scenic beauty and its pleasant olimate: its company tively sparse population; and the marked contrasts in population and industrial growth between the north and east and the south and west of the Region, Each of these features is an important factor in the making of a molonal plan

2. The Region covers the administrative areas of Wiltshire, Gloucestershire, Dorset, Somerset, Devon, Comwell and the Isles of Solly in its 9,000 square miles, it is the second largest of the English economic planning regions and is larger than Wales (see General Reference Map No. 1 in pocket, and Figure 1). As to its great length, from the northern boundary of Gloucestershire to the western tip of Comwall is 240 miles, as far away as are Manchester and Leeds from Brighton, Moreover, it is not physically all of a piece. Draw a line across the Region from say, Bridget to Bridgester. What line nastwards is sociaraly in southern England: 140 miles or less to London by road from any point. Westwards a great peninsula. widening from 35 to 70 miles agross then nerrowing to five, runs 160 miles to Land's End. A regional plan must face the problems of remoteness and the vital importance of communications which this shape imposes.

3. The Region's splendid countryside throughout, its 700 miles of largely unencilled opastline. and its centle olimate make it a most agreeable place to work in the country's main holiday area and a favourite resort for people when they retire. In few spots is there any congestion or pressure on living space and the land is free from the upliness produced in other parts of the country by 19th-century industrialisation. A regional plan must seek a prosperity which, while contributing fully to national economic growth, sustains and makes the most of these

amenifier.

4. After East Anglis, the South West is the least densely oppulated of the English regions The population of the whole Region was 3-6 million in 1984. Forty-five per cent were gathered north of the Mending and Salisbury Plain: of these, nearly half were in the Bristol-Bath area and there were smaller concernations. at Swindon, Cheltenham and Gloucester, Fise . where, population besides being pagestly more sparse has tended to concentrate on the southern coast: in the Plymouth area and at Torbay, Exeter and Pools, South of the Mendios there is no town, inland or on the Bristol Channel coast, with a population above 40,000. A regional plan must meet the different physical planning problems which are repre-

5. The marked contrasts in the disposition of population between the remote south west and the parts of the Region in close contact with the West Midlands and South Fast are a reflection of differences in the disposition of the forces of industrial growth. In the north and east, a young population growing fast by natural increase and immigration is accompanied by a rapid and diverse industrial expansion. In the south and wast, the advance of the boilday industry and the enterprise of a small number of firms in each locality are inedequate to counter the decline in agricultural employment or the effects of defence cuts on the Plymouth Dockvard. A regional plan which embreces industrial development and managever planning must match the contrasting groumstances of the several parts of the Region: it must at the same time, he consistent

The legecy of the past

8. Before the Industrial Revolution, the Region was predominantly involved in agriculture and its associated industries. It contained some of the principal wordlen textile towns in the country and by the 18th century two main textile areas had emerged, in the Cotswolds and in Devon. The other notable activity was Printed image digitised by the University of Southempton Library Digitisation Unit



Fig. 1 Economic Planning Regions of Qt. Britain and Development Asses

the working of misratis—iron, lead, china clay, copper, the and coal. Bristol, at one time the second city of the country, was an important port and commercial centre. In the early 18th centry the population was greater than most other regions in Britain, and was distributed much more evenly within the Reconn than it is today.

7. The growth of the new industrial centres in other parts of the country meant that the South West as a whole was no longer emong the festest arriving regions. Much of the Region experienced a relative decline in population, and Cornwall, affected by the chronic decline in mining, lost population absolutely between 1861 and 1939. As in other parts of the country. there was a steady movement of labour out of amounture and of people away from the pural areas to the towns, Particular towns and parts of the Region, however, shared fully in the rapid and thrusting growth of the 19th century. Briscol continued to serve as the urban centre for a large area. Swindon, chosen as a centre for the railweys, shared in the prosperity of their heydey. On the southern coasts the holiday trades grew as incomes rose and as the spread of the railways ellowed for easier movement.

Growth in the post-wer period*

B. The period following the second world war has seen a gradual resurgence of the South West, which has accelerated in recent years. The regional population increased by some 24 per cent between 1939 and 1964-nearly double the national rate-largely in consequence of substantial immigration from other parts of the country. Though many people came to retire, substantial numbers came ready to work and employment grew repidly, especially after 1958. Between 1960 and 1964 it expanded by about 7 per cent-nearly twice the national rate of growth. The most rapid expension was in the service sector but manufacturing employment only much faster than in the country as a whole. But because the total manpower resources of the Region were increasing all the time, very few inroads were made into the Region's unused reserves of manpower. Unemployment rates, too, remained above national rates for most of the period (after allowance has been made for the seasonal influences which affect the South West more than most) and were particularly high in much of Devon and Comwall.

9. Taking employees and self-employed to-

in the Flegion.

"Employment striction derive from employment exchange records which combines Feeling by the Stands West Scotlands Standing Fragrant with Sequence-most and Calculaturable of the Security Employment Standing Region's Consequently, the employment solutions shown on the the South West Scotland Fragma, which southers From New South West Scotland Fragma, which southers From New South West Scotland Fragma which southers From New South West Scotland Fragma Southers and the Security Scotlands of the Impact Southers and the Impact Southers an

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gether, elmost 13 million people were at work in the South West in 1955. The selfemployed, of whom there are more than 50,000. in agricultura alone, are a bigger element in the regional menpower force than in any other region. The so-celled extractive industries? are of considerable significance. One in nine of all agricultural workers in Great Britain is employed in the South Weet, and one in four of the country's mining and quarrying workers outside the coal industry. There were 54,000 employed in agriculture, forestry and fishing in 1985 and, with the large numbers of selfemployed farmers, the total manpower force in agriculture and horticulture was probably well over 100,000. The 17,000 persons employed in mining and quarrying include the workers in the china clay industry which is unique to the Region. The manufacturing sector provided work for 402,000 persons in 1965, about 30 per cent of the employed population compared with 38 per cent nationally. The sector has few of the traditional heavy

ailty. The sector has few of the irredicional heavy bable industries, and three is vide representation of modern capital and consumer goods as a section of modern capital and consumer goods are assessed industries and behavior. One reample —the Region consists a disclaim of the modern of the mod

10. In terms of growth of population and employment, then, the South West as a whole has a prosperous and expanding economy. But the contrast between the north and sast and the south and west within the Region persists. Incomes in the Region are lower than the national average, but higher then in Scotland, Wales or the Northern Region. The differences in the level of incomes within the Region are, however, greater than the differences between the Region and the country as a whole. Personal incomesparticularly employment incomes-tend to decline as one moves from east to west. elthough this is not offset to any appreciable extent by a lower cost of living.

The sub-regions

That the South West cannot be adequetely

cTo simplify the epocet, the industrial Orders of the Standard Industrial CleanScatters (white of 165) have been proceed in follower: Extractions recognized (white of 165) have been proceed in follower: Extractions of the Committee of the Co discussed in terms of a single unit is selfevident. The Council, therefore, early addressed themselves to the question of how best to divide up the Region for study purposes. The proposition is easier than the exercise. The desirability of identifying seperate physical areas with common feetures and problems has to be reconciled in some cases with the necessity of defining the areas for which separate statistical data can be made available. in the outcome, for study purposes only, the Council have divided the Region into four sub-regions, further sub-divided into nine sub-divisions (see Figure 2 for a map of the sub-regions and sub-divisions and Appendix 1 for the exact areas covared by them). Further study has confirmed the Council's view that these divisions correspond approximately with areas whose economic problems and needs are common, and which yet may not be common to the Region as a whole. At the sams time, they secoglias the constaints imposed by settleball data which are edministrative in origin (in particular, from the local authorities and the employment exchanges) and which can lose reliability in over-refusionment. The next part of this chapter offers a view of each sub-region in turn.

The Northern Sub-Region 1965 civilien population: 1.649,200

empleyment: 677,700 (Extractive 3%: Manufacturing 38%: Construction 6%: Services 51%)

12. The Northern sub-region is the most prosperous and fastet growing of the sub-regions. It contains the areas where population growth has been most concentrated, such as Bristol-Sevenside, Gloucastro-Chelsman and Swindon. The regiot sconomic growth of the error with be further astimulated by the great.





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improvement in communications created by the Severn Bridge and associated motorways. The sub-region contains, at Bristol and Bath, two of the three universities of the Region. It offers exciting prospects for coonomic growth. its potential has been recognised by the Government's decision to undertake a study of its suitability for large-scale development es part of a national search for suitable areas to accommodate the extra 20 million people expected to be living in this country by the 13. Bristol, with an important port, has well

diversified industries, including aircraft and asynghes, tobecon, pager and printing and engineering, which have grown considerably since the second world wer. The city, the eighth largest in Greet Britain outside London. is the Region's largest centre for the whole range of administrative, commercial, educational and other services. Nearby Bath, with some industrial activities, is also important as a cooper for Ministry of Defence administration as well as a place of great historic and architectural interest. The city's planning and twiffin neoblems have been the subject of en intensive study by Colin Buchsons and

14. The Gloucester-Chaltenhern area has grown recidly during and since the war. attracting new industries and population. Inevitably, perhaps, this growth has brought with it traffic and congestion problems which are accommend by the presences to each other of Gloucseter and Chattenham, and by the physical matrictions imposed by the Cotswold scarp to the south and east and the Severn flood plain to the west. The local authorities concerned are at present undertaking a land use study of the area.

15. In the Swindon area, the motive force of

rapid growth has been London overspill. The decline of British Referres' employment since the early 1950s has been more than compensound for by the inflow of new industry and expension of local anningering industry ganensted by the town development scheme A report by Llewelyn-Davies Weeks and Partners on the feesibility of planned development in the Newbury-Swindon area was published in March 1966.† The main recommendation was that planned development should take place in the Swindon area to absorb an increased population of 125,000 by 1981, with the total population of the town rising to about 400,000 by the end of the century. The Government decided that this proposed rote of growth was too ambitious. The new proposal is for a planned intake of 75,000 between now and 1981. Wiltshire County Council Swindon Borough Council and the Greater London Council are now examining the teachitty of expansion on this scale 16. The sub-region has two other areas of

slow but steady growth: Stroud-Dursley and West Wiltshire. Both show a pattern of smell towns and villages and industrial diversity. although the emphasis in Stroud-Durstey is important rubbar and food processing acqvities as well as large engineering industries. 17. In two areas-the Forest of Dean and the

Cotswolds-cogulation has declined. Cost mining has now largely coased in the Forest of Deen and efforts to attract new industry have met with only limited success, principally at Mitcheldern and Lydney, Although scenically attractive, porticularly in the Wya Valley. the eesn has a difficult termin, with shellow soils and much woodland and it noor from an epripultural viswegint. In contrast, the Cotswolds-classified as an Area of Ourstanding Natural Banucy -- have a thriving aminulture but population has fallen with the decline of rural industries and intrassed mechanisation

The Centrel Sub-Region 1965 civilien population: 766,500

employment (excluding Pople): 241.600 (Extractive 4%: Manufacturing 26%: Construction 9%: Services 57%

18. The Central sub-rogion is predominantly rural. The settlement pattern is based on a large number of small and medium-size towns, meny of which have an industrial as well as a market town oconomy.

19. In the north-west is a string of towns of which the lergest are Taunton and Bridgester. both on the A38 road and only 11 miles apert. Both have experienced steedy growth in recent years. Tourson's mainly administrative and service centre functions complement Bridgwater's mainly industrial character. The rest of the string are all within 20-30 miles of Bath or Bristol.

20. Yeavil, a small manufacturing town where steady growth is based on aircraft production and allowing, is in a cluster of small towns on either side of the Somerset-Dorset boundary. Salisbury is the centre of an aproutural area which extends into Hampshire and the South East Region.

21. In the south-east, Poole has grown rapidly since the war and is the largest town in the sub-region. Separate employment statistics for Pools are not available, but it is estimated

^{*}Calls Surbeem and Pattern-dath A Physics and Transport County, 15th Thronton and Pertners—asks A Phoning and Trecapace County, 15th Tileration-Davies Missis and Pertners—A Stew City; a shorty of select direct property of an area sententing Newdory, Desirates and Dissot, 10(03) 1566. sted image digitised by the University of Southempton Library Digitisation Unit

town in 1965. Its future is bound up with that of the Bournemouth area and its growth can be expected to continue. Further along the South Dorset coast, there is extensive interest in the holiday trades. Waymouth has grown steadily recently as a resort and residential town, and it is a packet port for the Channel Islands

The Southern Sub-Region 1965 civilian population: 768,100 employment: 269,000 (Extractive 5%; Menufecturing 22%; Construction 9%; Services 64%)

22. Outside Plymouth, and to a lesser extent Exeter, Newton Abbot, Paignton and Tiverton, the Southern sub-region has little manufacturing industry and so agriculture and the service tredes, particularly those which support tourism, are crucial to the economy. Fishing has declined and is now mainly based on Brixhem. Bosting and vachting are of increasing importance along the coast. The rich soils of the Exe Valley and the area in the extreme south of Devon support a prosperous agriculture, but soils on and eround Dertmoor are poor. The sub-region possesses mineral wealth. perticularly along the flanks of Dertmoor. Although there is no longer tin and copper mining, the extrection of chine clay, bell clay and granite remain important.

23. The main area of population growth is Exeter-Torbay. Elsewhere, the population has been increasing relatively slowly, es in the Plymouth area, or has been declining, as in the extreme south of Devon and in East Cornwall. 24. The relatively fast rate of population growth

in the Exeter-Torbay area in recent years has been due in part to the influx of retired people. The consequent age structure of the area, end for that matter of much of the sub-region. throws a strain on the social services, particularly the hospital and elderly people's services. Exeter, the county town, is the administrative and distributive centre for much of Devon and, with its university, is also an educational centre. Along the coast, Torbay and the smaller holiday resorts are growing and there is considerable pressure for urban development along

25. Plymouth is the second city of the South West and a focal point for much of Devon and Cornwell. Although it benefits from the holiday trede, it is primarily a dockyard and industrial cantre. Before the war, industrial activities were centred almost entirely on the Admiralty Dockyerd at Devenport which, elthough it has declined in employment since the war, is still Plymouth's major source of jobs. Post-war attempts to attract new industry to Plymouth

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that there were about 34,000 employees in the heve met with some success, particularly in the period 1960-61 when the city had Development District status. Employment in the Plymouth area grew rapidly between 1960 end 1962, but since then has been declining. and male employment in 1965 was lower than in 1982

The Western Sub-Region

1965 civilian population: 444,400 employment: 137,500 (Extractive 14%; Manufecturing 13%; Construction 3%; Services 64%)

26. Population in this, the most sparsely populated of the sub-regions, is mainly concontrated along the coest, with only e third of the three dozen or so towns located inland. The sub-region has experienced a considerable and continuing rural depopulation, particulerly in north-west Devon. Allied to this, there is a population age structure relatively older then the regional average, because of the migration of younger people in search of jobs elsewhere, and to some extent an influx of retired people. The main population concentration is in the Comborne-Redruth erea-e consequence of the mining boom of the last century. Tin and copper mining here declined sceedily from their peek in the 1870s. They have left a legacy of derelict mine shafts and tips and bad housing as well as a lively reputstion for mining technology. However, the working of minerals-chine clay, granite and tin-remains of considerable importance to the sub-regional economy. Chine day mining in the St. Austell area is expending, and the industry does an important export trade.

27. Agriculture and horticulture are important. The horticulturists benefit from the favourable climate but, particularly in the Isles of Scilly. suffer from remoteness from their main markets. Fermers in some erees have to contend with poor, infertile soils. Farms are generally small family businesses; Cornwall has almost twice the national proportion of land on holdings of less than 50 acres. Fishing, now based chiefly on Newlyn, has declined.

28. As in the Southern sub-region, the economy of the Western aub-region is considerably dependent on the tourist end holiday trades, which make for a marked seasonal rhythm in the economy. Employment maches a peak in the summer months when the demands of the holiday trades are highest: the winter brings a relatively high rate of unemployment, Apert from the seasonal fluctuations, there is a hard core of unemployment in parts of the sub-region, and unemployment rates have tended to rise since 1954.

29. Only 6 per cent of the employment in manufacturing industries in the South West is located in the Western sub-region, and this is largely concentrated in West Comwell, with production of mining aquipment in the Cambone area, end ship repairing nosably at Felinguth.

30. Under the Local Employment Acts 1906 and 4002, eases within the sub-region with high unemployment figures qualified as a second of the sub-region with high unemployment figures and the sub-region and

The net addition to manufacturing jobs in the

sub-region between 1980 and 1984 was not,

however, enough to counterweigh the loss of amployment in agriculture. 31. Since August 1986, most of the sub-region has been within the South-western Development Area (see Figure 1), drawn to encompass a wide range of factors including decopulation as we'll as unemployment, investment grants are being offered, at 40 per cent of the cost of new plant and machinery (compered with 20 per cent nationally), to qualifying manufacturing, construction and mining and querrying industries. The rate of grant for eligible capital expenditure incurred between 1st January 1967 and 31st December 1968 has been increased to 45 per cent in the Development Areas, and to 25 per cent reconsity. It is too early to judge the effect,

Regional planning and regional strategy 32. Regional planning in the South West, as

in the other seven English regions. se legions are political responsibility of the Footonie Flamining Council and the Economic Plamining Boart. The footonier are private previous expectation and the Economic Plamining Boart. The footonier are private previous expectation and produce and the Economic Plamining Council and an expectation in the food authorities, the indicateful and agricultural words, the travel countries, the unrevention and viewing order activities in the Region. The letter are child countries, the unrevention and viewing color activities in the Region. The letter are child the child regional officers of all the countries and viewing and the child regional officers of all the production and the child regional officers of all the production and the child regional officers of all the production and the child regional officers of all the production and the child regional officers of all the production and the child regional officers of all the production and the child regional officers of all the productions are considered with production and the child region and the chi

33. The terms of reference of Economic Planning Councils at their appointment in April 1985 were: a to easier in the formulation of regional plana, having regard to the best use of the region's

resources :

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b to advise on the steps necessary for implementing the regional plans, on the basis of information and assessments pseuded by the Economic Planning Board; o to advise on the regional implications of national economic policies.

Since these terms of reference wese drawn up, however, separations has recognized two qualifications which must be inserted into the simply stated objectives of formulating and divising on the implementation of regional plane.

34. First, it has come to be recognized that it

is too soon in the experience of regional planning to aim at achieving a set of government-approved plans for all regions which with neetly dovetell with each other and which, in numbers of population, distribution of manpower, growth and location of industry, again and disposition of public investment, etc. will in aggregate coincide with the forecasts. intentions and capabilities envisaged by the Government for the economy as a whole. The immediate eim should be for each council to state their own 'reosonable aspirations' for their regions, recognising that these aspirations will in part be competitive with each other for population, industry, government finance. etc. Reconciliation there must be, but it will be brought about partly by government decisions taken when necessary in the course of events and partly by the passage of time. 35. Secondly, it has also come to be recog-

policies costed, much soudy reside to be done of the three designation, and the possible. Mean-time, ineccapitals decisions are being statement, and the control of the cost o

nised that, before any regional plen can be

drawn up related to a specific time scale, with

the resources of the region fully enabled and

36. The document here presented, therefore, is not an official formulation which he she approved of the Government. It embodies a wide range of forestal material relating to the wide range of forestal material relating to the first of the forest the present relating to the first of which, before the present matchinsy was established, was prepared by government depositation. For some other regions and published in 'regional sendies', But the pre-forest present and published in 'regional sendies', But the pre-forest present and published in 'regional sendies'. But the pre-forest present and published in 'regional sendies'.

it. The statements of policy which follow are

the Council's rearonable suprivations for the Region.

37. Nor is the document a regional plan, it states a regional strategy on the basis of which, in the Council's view, the preparation of a regional plan for the South West should go forward, it indicates the discussions and studies

of a regional plan for the South West should go forward. If Indicates the discussions and studies which have to be undertaken batter the stage of a regional plan can be reached. Meantime, if provides the supporting case for immediate decisions which the Council meet of press upon the Government in the interests of the Region and the famou of reference by which advise can be given on the regional implications of national economic and physical planning and the famou former or so the property and be given on the regional implications of national economic and physical planning and the famous former or so the property of property or so the property of the property of property or propert

politics.

30. The statisty presented in a direkt stategy in two senses. First, it is put before the Residual in two senses. First, it is put before the Residual in two senses. First, it is put before the Residual in the R

observations on record is also issued to a wider renge of institutions. 38. Secondly, time itself will detended more than one redefining. Any strategy or plan begins to fell out of date as soon as it is published. What people do and what proventments decide, increased knowledge of the facts and exchanological developments within change schemological developments. With change technological developments within change technological developments for the state and adopted programmes. For instance, the Council have med no allowome for the possibility that the United Kingdom may join the European Economic Community.

40. In particular, it is to be emphasised that the Council have not had to budget for a costed and dated programme, nor is the information available at this time for such an exercise. The Council have deliberately resisted including for popularity's sake proposals which they saw to be 'unreasonable' and have done their best to recognise the limitations in immediately available resources. But, on a long-term view to 1981, it is fair to say that the Council have been reesonably optimistic about the rete of growth to be expected of the national economy. Meny of the proposals and recommendations put forward by the Council for the Region will contribute to that achievement, but there are some-for exemple, in the estimated mouirements for capital investment-which may be dependent upon the national rate of growth.

2 Population

PART II DECIGNIS PEOPLE

The present population

41 The South West Renion, with an estimeted civilian population in mid-1964 of 3.683,000 (6:8 per cent of the total population of Greet Britain) is the least densely populated of the Frolish economic planning regions after East Anglia, There are, however, pronounced differences within the Region. The north and east ore comparatively densely populated with an age and sex structure broadly similar to the average for Great Britain. The south and west are commonstively anarsely nonulated with relatively low proportions of children and nancia of working one and mistigaty high proportions of elderly people.

42. Floure 3 shows more precisely how unevenly the population is distributed. Nearly half is concentrated in the north and east and them are other, lasser concentrations along the southern and western frage of the Region--in the Plymouth and Poole areas and along the holiday coastine. In contrast, the heart of the Braign is sparsely populated. The average density is below 0.3 persons per note over much of east Comwell, mid and north Devon the Cotswolds and the Wittshire and Dorset Downs-compand with an average density of 0 -6 persons per scre for the Region as a whole and O S persons per arm for Great Britain 43. Another feature of the settlement pattern is the small number of large towns and the lerge number of small towns. There is no major conurbation. The two main cities. Briefel and Plymouth, with their adjacent urbanised areas. constitute the largest concentrations with estimeted populations of ebout half a million and equatter of a million respectively. The only other sizeable concentrations of population are in the Gloucester-Cheltenhern anna (about 200,000), the Poole eres (shout 120,000) the Swindon area (about 118,000) and the

Torbay area (about 100,000). 44. Cutside these there ere only two cities. Exeter (about 90,000) and Beth (about B0,000), with populations exceeding 50,000. There are nine towns with populations of ed image digitised by the University of Southampton Library Digitisation Unit

between 20,000 and 50,000. There are over 150 small towns with less than 20,000 population, and these between them cortain pearly a quarter of the Region's population. Figure 4 shows that these small towns are fairly exactly distributed throughout the Region: they have particular economic and social importance in the more spersely populated western seess.

45. The distribution of olyllan nonulation among the sub-regions and sub-divisions referred to in Chanter 1 is shown in Table 1.

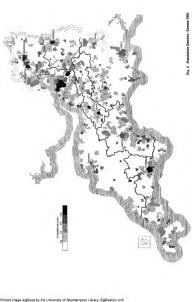
TARLE 1 Estimated civilian population, mid-1964

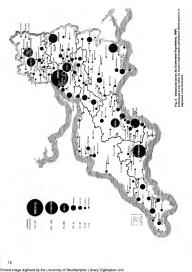
Population population

Acce

	No.	56	
OUTH WEST	2,593,920	100 0	-
orthern	1,625,630	45-4	
orth Gloucesterships	436,550		
retol-Savernede	870,400		
orth Witshire	318,740	8.9	
antra l	757.570	21:1	
Westpary Westpary	235.610		
outh East	622,060	16-5	
outhern	799.420	21-2	
oter-Today			
yrouth Area	890,740	9.2	
festern	440.600	12.3	
lest Cornwall	241,180		
odmin-Europor	199,760	6.4	

46. Table 1 brings out the demographic dominance of the Northern sub-major. Just over 45 per cent of the Region's population lived in this area in 1964, with the lexuest concentration in the Rostol-Severnelds subdivision which centers on Bristol. The Central sub-region and Southern sub-region each contain about one-fifth of the total population of the Region. In the Central sub-region, most of the people live around the periohery; in Tounton, Bridgwater and the towns south and





eas of the Mending, in Sallabory, or in Pools on the reservation drough the Deservation case in the Southern sub-region, population in the east is concentrated principally in Exerter and its environs and along the coast, while in the west, Primouth and its environes provide the main specially populated. The Western sub-region constains only shout ones-eighth of the Region's population. The Bedmin-Emmoor sub-division is the most thinly settled part of the Region's

population. The Bodmin-Exmoor aut-division is the most thinly settled part of the Region; only in the Bemstaple-Bildeford area is there any sizzable concentration. The West Comwell sub-division, despite its geographical remotences, has a higher population density with concentrations in the metalliferous and chine elely mining areas around Cambrone-Radruth and St. Austell and in the small ports and holi-day resorts along the costs.

47. There are some important differences between the age and sex structure of the regional population and that of Great British. Appendix 2 shows the distribution of the regional population in 1984 by broad gas and sex groupings and Appendix 3 compares the figures with the national population is structure. The data are summarised in Table 2.

48. Compand with the eversey for Clease Tellistin, the population of the Region as whole tands towards the allower, which relatively book tands towards the allower, which relatively book tands to the population of the population of cellistics in an amount of the proportion of cellistics in an amount of the tellistic tands of the population of the Region tands of the population of the Region tandson associates. For the rest of the Region broady possible that the rest of the Region broady that the properties and the lodge that the possible that the properties and the lodge that the possible that the properties that the tellistic that the tellistic that the properties the properties that the properties the propert

In the Southern sub-region, for example, the

relatively low proportions of childran and of man of working age combined with the very high proportion of old people in the Exeter-Torbay sub-division contrast sharply with a population distribution in the Plymouth Area sub-division which is closer to the overall socional distribution.

Past trends

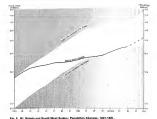
49. Appendix 4 shows the changes in the coal population of the Region since 1821 (see also Figure 5). Between 1821 and 1839, the South West experienced a persistent decline in population relative to the rest of the country, mainly through sustained net emigration to other parts of Englerd where en industrial expansion was taking place which left the South West largely untocached, The Region?

soul visit stellar still contained, the regions of this period that the period that the period that the this period, from 1,700,000 to 2,500,000, but this was a flow site of growth compared with the sational increes of 228 per card and the Region's share of the total population of Great Seating fill from 129 per card in 1821 to a little over 6 per card in 1899. The population of young people and the movement of older population of the Region for militarnia. In consequently the Region for militarnia. In consequently excessed of british over deaths, leads for compared with the military and the seat of the population. (As excessed of british over deaths, leads for compared with the military and the seat of the compared with the military and the seat of the compared with the military and the seat of the compared with the military and the seat of the compared with the military and the seat of the compared with the military and the seat of the compared with the military and the seat of the compared with the military and the seat of the compared the compared to the co

50. The overall trend concealed contrasting experiences in the different parts of the Region. The north and east, aspocially the Greats parts of parts feet, and a supposably the Greats experience force, attesting an increasing share of the Region's population and maintaining an age structura approximating to the netional average. Most other person suffered a relative decline in population, particularly the rarel areas, and in expension, and the proposable parts of the proposable parts of the proposable parts and offsetting pairs in the 20e and 30e of this century with the expansion of the holiday treds and the expansion of the holiday total and the

TABLE 2
Indices of age and sex of civilian population, 1964

Acos	Children	Work	ing ege	Elderly	
	Both sexes 0-14	Males 15-64	Females 15-69	Males 85 and over	Ferrales 60 and over
GREAT SRITAIN	100-0	100-0	100-0	100:0	100 0
SOUTH WEST	88-7	97-8	97-3	120-0	1144
Northern	101-7	100-9	98-2	104-4	102-9
Central	89.6	95-5	96-5	126-7	1168
Southern	89.0	94-6	96-6	137-6	131-7
Wastern	83.0	95.9	96.6	140.0	150.0



The proportion of the total sponders or Ga. Erroin bloop in the Scatt News Region on each Corress date in its 22 been required interest. 25% at 1821 and 185 (4); 18193.

The proportion in the Region searched exect Corress are justiced above on a logarithmic solution.

The proportion in the Region searched exect Corress in justiced above on a logarithmic solution.

The proportion is the Region searched as the Scatter of the Articles of the Scatter of the Scatter of the Scatter of the Articles of the Scatter of the Scatter of the Articles of the Scatter of the Scatter of the Scatter of the Articles of the Scatter of the Scatter

growing interest in refinement to the South West. Bither way, for most sural and costoll asses, the result was a population structure older than the regional overage.

81. The period from 1938 to 1986 year some

reversal of the loop-term trends of the previous hundred years, with the Region making substantial gains of population by immigration; in consequence, despite a continuing law rese of natural increase, the South West enlarged its share of the total population of Great Britain. The population of the Region increased by about 700,000 in these 25 years end the rate of Increase, some 24 per cent, was nearly double the national rate of increess. The distributton of this growth tended to follow the already established pattern, with population increases concentrated in the north and seas and on the southern coast, although the last decade sew some slight softening of the contrast between the north end east and the south end west of the Region.

Natural change and migration disks 52. The importance of migration in this reversal of past tends can be seen in Appendices 5 to a few or the seen of 1864, 4 percent of the national 1864, 4 percent of the national tends of 1864, and the seen of 1864 are can be also as the seen of 1864 and 1864 are can be also as the seen of 1864 and 1864 are can be also as the seen of 1864 and 1864 are can be also as the seen of 1864 are c

from migration lints the Region. In this residence, 1954–19, natural inference accounted for 42 per cent of the Increases in the okifical propulation (exacting the settiness of linesse straining to have a containing the have a large and the section of the discussion in the section of the discussion in the containing that the proportion of containing that the section is not the immigration new to 40 per cent.

growth in population was due to natural increase

and 55 per cent was the result of net calos

bean significant exceptions to the row trent, or can be seen from the summary in Table 3 of the distribution of the Region's possible rower in the case of the distribution of the Region's possible rower in the Societies of 1846–84, and for the Region of the Region in the Region in the Region in the period, martin gradion isto the Region in the period, martin gradion isto the Region in the period, martin gradion into the Region in the period, martin gradion into the Region in the period, martin gradion into the Region in the Regi

TABLE 3
Distribution of civilian population growth, 1954-64

Acce	Total growth		By natural increase		By net inward movement*	
1	2	3	4	5	6	7
	No.	*	No.	%	No.	15
SOUTH WEST	+322,700	100	+123,200	100	+172,000	100
Northern Central Southern Wastern	+183,900 + 78,200 + 50,500 + 10,100	57 24 16 3	+ 66,200 + 27,100 + 8,000 + 1,900	70 22 8 2	+ 85,500 + 45,400 + 38,500 + 4,600	50 20 21 3

Section represed exercised that and callete from the already of demand Propers, Plantag architecture & and Early and add on to achieve 2.

Composition and distribution of

migration 54. Reference so far has been to net immigretion into the South West-that is, the difference between the numbers of people who have moved into the Region or its sub-majons and sub-divisions and the numbers of people who have left. Very little information is available about numbers of migrants into and out of the Region separately, about their origins and dastinations, or ebout their sexes and ages. The 1961 Census indicates that, between April 1980 and April 1961, each of the six counties in the Region had a net micrational gain from the rest of the country, with a slight pradominance of females over males. Somerset and Wiltshire had overall nat geins from migration in this one-year period; Comwell, Dayon and Gloucestershire experienced net losses; in Dorset gains and losses belanced. The younger working age groups (15-44 years) were predominant in net immigration into the Greater Bristol area in 1960-61, whereas the groups of older working-age and retirement age formed the largest proportion of net immigration into Devon and Comwall. There is a continuing outward migration or overspill from Bristol, and to a lesser degree from Plymouth,

into the neighbouring urban and rural areas.

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Changes in age and sex structure

55. The effects of the recent stends in natural change and immigration on the eage and structure of the regional population are shown in Appendix 8 and Figure 8. In the ten year between the 15th and 18th Cespatas, the between the 15th and 18th Cespatas, the british and in the Region were similar in direction and for the most part in degree. The period was one of spid population growth in the South West but, like the output's as whole, the Region experienced only marginal changes in numbers of people of working again.

in numbers of people of woulding age. Nationally and reiginally then were increases among the children, the older working-age groups sed the children, the older working-age groups sed the children, the older working-age in your groups and the children and a second control of the children and children an

56. Some assessment of the influence of recent migration on the adult population can be obtained by assuming that the 1951 population had savely out and projecting to 1981 the number of males and females in each age group, at assumed survival retart. This theoretical population for 1961 can then be compared with the actual discribution recorded by the 1981 Census: the observed differences will be the effect of microstion in 1981-91.

57. While the limitations of such an exercise must be emphasised, some broad general conclusions emerge. The Northern sub-region gained chiefly in the working age groups: around three-quarters of the total net immigration into the Region of people in the workingage arouse was in this sub-region. The Central

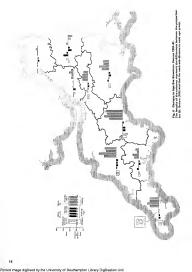


TABLE 4

Changes in age/sex distribution, 1951-61 Census enumerated population

Chi	dren		Work	ng age			Elder	v	
Both o	scxes					Minico 65 ans	i over	Femal 60 en	
1951	1981	1961	1961	1951	1961	1951	1961	1951	1961
21-4	22-5	32-3	31-2	30.5	29-1	5.2	5.5	106	11-7
22:1 21:3 20:6 20:6	23-3 22-6 21-2 21-2	32-6 33-0 31-5 31-1	32-0 31-1 30-2 30-3	30-9 30-0 30-8 31-0	29-5 29-8 29-0 29-0	4-6 5-2 5-6 5-7	47 57 62 64	98 108 116 116	10-5 11-8 13-4 13-1
	Beth 0-14 1951 21-4 22-1 21-3 20-6	214 224 221 233 213 226 206 212	Both sexes Males 0-16 15-54 1951 1961 1961 21-4 22-5 32-3 22-1 23-3 32-4 21-3 22-6 33-0 20-6 21-2 31-5	8cth occes Males 15-64 15-04 1	Soft solves	Sign Sign	Birth comes	Sign Sign	Sight 9699 Males Fermides Marice Fermides Marice Fermides Marice Fermides Marice Fermides Marice Fermides Fermides

areas is cleerly shown in the gains among the old. In the Western sub-region, geins among the old were partly offset by losses in tha working-age groups.

HM Forces 58. The analysis so far hes related to the civilian

population of the South West, but mention must also be made of membars of HM Forces. The Region contains many HM Forces' treining areas and airfields perticularly in Wiltshire and Dorset, as well as Navel Dockyerds at Plymouth and Portland. The run-down of the Armed Forces in recent years has considerably reduced their regional importance but, locally, tha concentrations are still significant, particularly in the North Wiltshire, South East and Plymouth Area sub-divisions. The high rate of natural Increase characteristic of young service families can have a big effect on the demographic structure of spersely populated areas.

sub-region received substantial gains in all

age groups, but with the emphasis on meles

of working age. In the Southern sub-region,

the pains of persons of employment age were

small, and the influence of the coastal retirement

Summing up 59. The astern of population growth as it om-

erged from the 19th century remains the broad nattern today: the concentration and growth of a vounger population in the north and east of the Region, and an ageing end more-slowly arowing population elsewhere. If the present trends of high rates of natural increase and substantial immigration of the younger working and fertile age groups into the north and east continue, it will be bacause here there are continuing opportunities for economic development for which these groups provide the

necessary edditional labour force. The low rates of natural increase and older one structure which are typical of the south and west of the Region are due in pert to its continuing popularity as a retirement area; but they also reflect the fact that here there have been relatively few new developments on a scale sufficient to retain and attract population, aspecially the younger age groups, in compensation for the long-term decline in egricultural and mining employment.

3 Manpower

PART II THE DEGIONIS DEDDIE (contrá)

> 80. The basis of population distribution is largely employment opportunity. This chapter examines the present pattern and report twinds. in the Region's matpower, its oncorrephical distribution within the Region, its distribution between economic sectors, and the extent to

61. In 1965 there were 28 million people over the age of 15 in the South West, excluding Pools, and about 14 million were in jobs or ectively seeking them. Table 5 shows that the South West had a smeller than average shann of employees but a legger than average share of self-employed, HM Forces, and nonemployed.

THE PATTERN OF CIVILIAN EMPLOYMENT

62. The estimated distribution of amployees

in employment and self-employed neonlebetween the main economic sectors is shown in Table 6. The bulk of employment in the South West, both for employees and selferroloved, is in the service industries. Menu-"See Appearly 2 lar a note on the employment excistes used in

which it is utilised."

facturing industries provide more than a quarter of all employment for paid workers but for only about one in 20 of the self-employed. The proportions are myoused in the extraction industries. Nearly a tenth of both employees

and self-employed are in construction, The pattern of paid employment

63. There were about 1:33 million employees in employment in the Region, excluding Pople. in 1965: 5-7 per cent of total employment in Great Britain, compared with the South West's 6 8 per cent share of the home population (see Figure 7). The features of the Region's employment structure referred to in personach 62 are strikingly illustrated in Flores 8.

64. Appendix 10 compares the 1965 distribution of employment among boned industrial groups in the South West with the national distribution. With less than 6 per cent of all employment in Greet Britein and cely 4-5 per cent of ell manufacturing employment, the South West cannot be reckoned as one of the major industrial regions. In certain activities however, it carries more weight than the overall position indicates. Examples of these are: in the extractive sector agriculture forestry and fishing (with more than 11 per cent of all

TABLE 5 Home population over 15 years, employment and nonemployment, 1965*

Population	Males 1000	Ferrales 1000	Tetal 1000	Shee o GB tots %
Home population (aged 15 and over)	1,005	1,447	2.792	68
Employees (employed and unemployed) Self-employed Hill Forces Non-employed	672 128 50 285	471 26 2 2	1,343 154 52 1,233	5-7 9-2 12-3 8-1

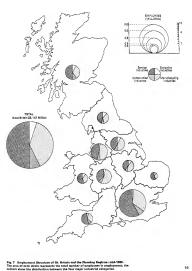




TABLE 6
Estimated distribution of employees in employment and self-employed people. 1965*

	Total civilies employment		Self- employed	Employees as employment		
Sector	1000	Share of South West total 'S	1000	7000	Shere of South West total %	
Extractive Industries Marxifecturing industries Construction Service industries	121 409 126 824	9-2 27-6 9-5 95 7	50 7 14 83	71 452 112 761	5-4 30-3 8-5 85-8	
Total	1,460	100-0	154	1,326	100-0	

"South West Region, excluding Posis.

agricultural employees in Great Britalin); and, in the manufaccuring sector, Soud, drink and tobacco manufacture, shipbuilding, and whilele production (reflecting the large regional sizeralt and enerspace industry). Paragrapha 68–77 contain a fuller analysis of employment in the Senties.

The pattern of self-employment

form a particularly significant element in the Region's labour force. Precise estimates of the extent and detailed pattern of self-amployment are difficult to obtain, but the best estimate available, based on the 1961 Cersus, is that them were some 150 000 self-semilowed in the Region at that date, five-sixths of whom were meles. The self-employed are a higher proporin any other region (ebout 11 per cent of total employment in the Region in 1965 compared with about 7 per cent in Great Britain). The numbers of self-employed are nevertheless a diminishing proportion of the Region's labour force since, while numbers of employees have been increasing in recent years, the numbers of self-employed are known to have remained

66. There is little information about the incurbillion proportion of the salf-employed. Table 7, based on information provided by the 1861 based on information provided by the 1861 based on the best estimate possible although the proposition of the salf-employed proside the proposition of the salf-employed protable of the proposition of the salf-employed protained to be residently agriculture) in male salfemployment in the Region, and of the distributive trades in freeder salf-employed.

fairly steady.

67. Appendix 11 shows that, within the Region, the self-employed are most heavily concentrated in Comwall, Devon and Dorset;

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for example, the self-employed accounted for solur 22 per cent of the total male working oppulation in Comwell in 1961 and about 11 per cent of the total female working population, compared with 12 per cent and 6 per cent respectively in the Region as a whole. This person is mainly amburuled to the general term of the person of the person of the person of the three person of the Region and to the Higher proportion of self-employed emorg those engaged in agriculture.

THE MAJOR SECTORS OF EMPLOYMENT

The service and construction

68. Table 6 has shown that the service end construction industries together are the deminant sector in the Region's employment structure. Besides construction the longest industrial orders, all employing more than 100,000 workers in 1985, are distribution.

professional and eclentific services, and miscelleneous services (including hotals and cateing). All these activities accounted for a higher proportion of segional employment in 1965 TABLE 7

Estimated distribution of the self-employed, 1961*

Activity	Meles %	Female: %
Extractive industries	25	14
Menylecturing indestries	4	7
Construction	11	-
Olstributive trades	13	41

All other services
Thout Wer Region, esoluting Pools

then in the country as a whole. Other lerge orders included transport and communications and public administration, the letter including substantial concentrations of national government employees at 8ath, Cheltenhein and Devonport as well as at Bristol.

69. A large port of the regional service sector cotins for the needs of the local population, including those who have retired to the South West from clsowhere in the country. In proportion to population, however, the labour force in the service sector in the South West is rather larger then in the rest of the country (although e smaller proportion then in the South East). The most notable differences between the ranional and the national nation are that the South West employs appreciably lerger proportions in hotels and catering and in motor repairing and garages-two groups essociated with the tourist industry-and in construction. eritration modified and dental rendress and national government services. The size of the Region, its emention, and the proliferation of small towns probably account for much of the relative importance of the service industries. The many smell shopping centres and long lines of communication impose high demands for manoower, while the emenities of the Region not only give rise to employment in the tourist tracing but facilitate recoglement to

echools, hospitals and public administration.

It is also, parhaps, in the character of the Region.

that private domestic service, though declinion in numbers, still employs nearly twice the national average proportion. In some green the lack of alternative employment tends to make possible the employment of a high proportion of the labour force in service trades at relatively low rates of pay.

The manufacturing sector 70. With over 400,000 employoes argaged in

manufacturing in 1965, the Region deerly has considerable industrial importance, despite the fact that the manufacturing sector is relatively smeller then the average for Great British and for all other regions. As cen be seen from Appendix 10, the South West as a whole has a reasonably well-balenced manufecturing structure, without merked dependence on any one industry. In the main, however, employment is concentrated in the light engineering and consumer goods industries, and there is a compensively small representation of inclustries such as heavy engineering and chemicals. And, despite the historical importance of the West of England cloth industry, the teadle industries are now much less important in the

regional economy than they are nationally. 71. Engineering and electrical goods, whiches and food, drink and tobocco between them accounted for more than helf the manufacturing employment in the South West in 1985. Table 8 shows how employment was divided

TABLE 8 Main manufacturing industries: employees in employment, June 1965*

	SOUTH WEST	GREAT BRITAIN	
Industrial Circles	Numbers employed '000	Share of total employment %	Share of total entploymen %
Engineering and Electrical Goods, of which	104.3	70	94
Adricultural machinery Industrial spainers	26	0.1	0.0
Mechanical handling aquement	4.6	0.3	92
of scellersous and rearing	4.5	0-3	0.2
Other recommend engineering	10.9	14	10
Findio and other electronic apparents	30 3	2/2	37
Other electrical angineering	13-4	1-0	12
Instruments, weights and clocks	10 8	11	2.5
	.00	0.7	0.7
Vehicles, of which	63 2	48	37
Aircraft rearrufecturing and repairing?	42.2	2-2	11
Motor vehicle menufacturing Locorrotives and refewy track equipment	11.6	9.9	24
	5-9	0-4	0.2
Food, Drink and Tobacco, of which	62.4	4-7	35
Breed and flour confectionary	9.7	0-7	97
Milk products	2.2	0-7	07
1994000	8.2	0-6	62
Codes, choocists and super confectionary	62	0-5	0.4
Becon curing, meet and hab produces			

ings and how their regional (moortance) compared with hier retinosal importance. The South West was relatively strong in a number of the mochanish engineering industries, but it had less than the netional proportions on the electrical side. The wholese order was dominated electrical side. The wholese order was dominated electrical side. The wholese order ded tuberco inclusions were significantly and the proportion of the content of the c

7.2. Other menufecturing industries in the South West were much smaller. However, within the clothing and footware group, the manufacture of footware is perticularly important; this leadury employed a higher proportion of workers in the South West then anywhere size in the country except the Stort

The extractive sector

73. About 54,000 employees were empaged in agriculture, forestry and fisheries in the Ragion in 1968, constituting a proportion of total employment which was nearly twice as high in the Region as nationally. The bulk of this sumber was in agriculture and heroiculture; indeed, well over 10 per cent of off the people employed in agriculture or horticulture in Great Station work in the South West.

74. However, employment statistics for eoriculture and horticulture see particularly inadequate as e measure of the Region's mennower structure, because they exclude the selfemployed farmers who are a substantial part of the Region's agricultural management force. Three elso exclude some part-time workers who may be insured in respect of other employment and therefore recorded in employment statistics for other industries, and some farmers' partners or relatives who, although occupied in agriculture, may be cleased as non-employed for insurance purposes. The 1961 Consus indicates that there were rether more than 50,000 self-employed fermers in the South West at that time and, taking employees and self-employed together, the total menpower force of the Region's acriculture and horticulture industry was probably well over 100,000 in

78. Mining and examying employed about 17,000 people in the Region in 1885, Cosinining has diminished in Importance. The industry employed about 24,000 workers in 1985 (including marketing and seasonab actif) and this number has also been reduced with the further desure of pits, Other Initing and the further desure of pits, Other Initing and the pits of the pits of the pits of the pits of pits of the pits of the pits of the pits of pits of the pits of the pits of the pits of pits of the pits of the pits of pits of the pits of pits of the pits of pits

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emoning the melin components in these groupings and how their regional importance on the component with their resident importance. The South Week was materiely strong in a number of the mochanical engineering industries, but the less than the aeritical promorphism on the

MALE AND FEMALE

76. Women are a smaller proportion of sotal employees in the South West than the met of Great Sritain and the difference is most marked in the manufacturing sector. Of meety 860 000 males in employment in the South West in 1965, 12-5 per cent worked in the construction industry, 10 per cent in distribution. 9 new cent in engineering and electrical goods and 5 per cent in agriculture and horticulture. Of about 470,000 females in employment, nearly 75 per cent were engaged in the service sector notably professional and scientific services (which accounted for no less than 23 per cent of femeles who were at work in the Region), the distributive trades (20 per cent) and miscellensous services, including hotels and catering (19 per cent).

77. That there were comparatively few women in the menufacturing sector was not memby because manufacturing industry was smaller in the Region: its labour force had a distinctly higher proportion of male employees then nationally. In the South West, 73 per cent of all employees in manufacturing were males and 27 per cent were females; the comparable purcentages for Greet Britain were 68 per cont and 32 per cent. This dependence on male employment is a feature of all the main industriel orders in manufacturing in the Region as well as of the manufacturing sector as a whole in some cesos. It is due to the character of the industries concerned: for example, in the textiles and clothing groups, the lergely meleemploying men-made fibres and footween industries are more dominant in the industrial structure of the South West than in the national structure. In other cases, it may be that men have traditionally been given first cell on available jobs; any further expansion in these industries may therefore provide additional employment concerturities for women. industries where the proportion of female amployment in the South West is not markedly different from the national proportion include engineering and electrical goods.

REGIONAL EMPLOYMENT

78. To assess the growth in regional employment it is necessary to choose a period which began end ended at roughly corresponding points in the trade cycle. With certain reservations, the most recent period suitable for study.

is 1960-64. An important factor which was peculiar to this period and therefore partially distorts the picture was the designation of Plymouth as a Development District between April 1950 and June 1961. This is of some significance in an analysis of trends within the

79. The period 1860-64 is not entirely typical of employment growth throughout the lest ten to fifteen years, however, Between 1982 and 1865 employment was growing at an average of 15,000 per annum, but there was very little change in the following three years. In the whole of the period 1952-58 the rate of employment growth in the Region was exactly the same as in Great Britzin, though male employment grew more slowly than nationally and female employment more rapidly. The year 1958 marked a turning point and from then until 1984 regional employment, both for males and females, expanded much faster than in Great Sritsin, providing for an average of about 24,000 extra employees every year. Growth in employment since 1984 has stackaned off somewhat by comparison with this explosive phase, although in manufacturing the increase in employment has continued at substantially above the national rate.

80. Figure 9 illustrates the dynamic changes which were taking place between 1960 and 1964. During these four years, employment in the Region increesed by 89,400 or 7 per cent. compared with 4 per cent in Great Britain. The regional rate of increase was about twice the national rate for both males and females: the number of male employees rose by 45,800 or 5 per pent (componed with a 21 per cent increase nationally), and female employees increased by 43,900 or 11 per cent (compared

with 6 per cent nationally). 81. Appendix 12 shows employment changes between 1960 and 1964 by main industrial orders. The most rapid expansion was in the service industries and construction, where amployment increased by 11 per cent compared with a national increase of 9 per cent. The rate of growth in manufacturing was rether slower, and employment in this sector accounted for e rather smaller proportion of total regional employment at the end of the period than at the beginning. Nevertheless, menufacturing emplayment increased by 44 parpent in the Renkon whereas nationally it rose headly at all. More of the expansion in both services and menufacturing was met by the growth of the regional population, but some was mut by the movement of workers from agriculture and coalmining.

82. The rate of increase was high in nearly all the industrial orders within the service sector and, throughout nearly the whole range of service industries, the regional rate of increase was appreciably above the national rate it was

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particularly so in the cases of insurance, haveing and finance; medical and dental services, cessring and hotels, etc.; and national coversment service. In some other cases where the regional rate of increase was close to the national rate, the numerical increases were substantial: for example, construction, recall distribution, and educational services.

83. In the manufacturing sector, increase in employment was at a markedly high rate in the engineering and electrical goods group of industries, which expanded by 23 per cere, nearly three times the national rate. Some of the food industries also grew particularly fee as did footwear and rubber,

84. There were few industries where employmore decreased between 1990 and 1964, but these ware the more conspicuous for being against the general regional trend. The chart ones were agriculture, which lost over 8,000 people; railway operating and menufurnary which lost about 11,000; and private domestic service, which lost 6,500. The release of labour from the modernising agricultural and real transport industries was rather below the national rate, but rollway workshops were affected more drastically. The increase in opportunities for alternative employment undoubtedly attracted many employees away from private domestic service.

EMPLOYMENT IN THE SUB-REGIONS

85. Appendix 13 shows the sub-regional and sub-divisional distribution of employment in 1965 by main economic sectors (see also Figure 10) and Appendix 14 presents the figures in terms of shares of total regional employment compared with shares of majoral population and land area. The Northern subregion is dominant in the employment structure of the South West, as in the demographic structure. It had 51 per pent of all employment in the Region in 1965, compared with its 47 per cent share of the regional population. At the Other extreme, only 10 per cent of all employees in the Region worked in the Western subregion, which contains 13 per cent of the regional population. In employment, as in geography, the Central and Southern subregions are between these two, each providing around 20 per cent of total regional employment, slightly less than their sheres of population. The variations in the aub-regional shares of population compared with employment are due to the greater number of retired people in the south and west of the Region, to the greater proportion of self-employed in Devon and Comwell and to differences in activity rates

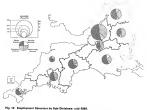
86. An examination of sub-regional and sub-

divisional employment in 1965 within the

mejor aectors shows even greater contrists.



right-hand columns indicate percentage change between 1900-64.



rsg. 10 insproyment Structure by Sub-Divisions: mid-1966.
The eres of each circle represents the total number of employees in employment; the sectors show the distribution between the four major industrial outcoprise.

Services and construction

87. Employment in services and construction was broadly proportionate to the size of the population in the area served. The relatively high share of regional employment in these industries in the Bristol-Severnside subdivision is meetly due to Bristol's role as the hondquarters of regional organisations, both public and private. In the Exeter-Tortey subdivision, it largely reflects the importance of retirement and tourism in the economy of the sub-division. In West Comwall it is similarly related to tourism. Only in the Sedmin-Exmoor sub-division, with 7 per cent of the regional population in 1965 and only 5 per cent of regional employment in the service sector, was there a markedly low store of services employment.

Manufecturing sector

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88. In the meanderships scace, 86 per case of citize regional engineers of memory-broading was in the Northern sub-region, and only here was the proposal of employees in meanderships was in the Northern sub-region, and only here was the proposal of employees in mean formal country. With his sub-region, the fetch Willatter as sub-division had a rather bighter proposal or all participation and sub-division had a rather bighter proposal or all participations and containing employment. (45 proposals in North Containing employment, 65 proposals in North Containing employment, 65 proposals in North Containing employment (45 proposals of in IT Wastern sub-night had only 67 proposals or in North Containing employment had only 67 proposals or in The Wastern sub-night had only 67 proposals or in The Wastern sub-night had only 67 proposals or in The Wastern sub-night had only 67 proposals or in Opening and Opening a

menufacturing, the bulk of it in the West Correyell sub-division: the proportion of manufacturing to total employment (13 par cent) was well below the national and molecul proportions. The rest of the manufacturing employment in the Region was divided almost equally between the Central and Southern sub-regions. In the Physicuth and Wellington-Westburysub-divisions manufacturing employment accounted for 28 per cent and 34 per cent respectively of total employment. The proportion of manufacturing employment to total employment was much smaller in the Exeter-Torbey sub-division (18 per cent), A similarly low figure for the South East subdivision (21 per pent) is exclusive of Pools. Extractive sector

8.0. Employment in the estractive sector was record finity owney throughout the Region in 1965, reciply in propertion to the size of each reciplose. This is a similar be executed in all part of the estractive sector, even though part of the estractive sector, even though figures make no clowasce for self-employed figures make no clowasce for self-employed features. But the significance of the exception reciplose welfer self-employed sector of promptor welfer self-employed in sector of the employment in 1965, primary count of its employment in 1965, primary in this city primary in 1965, primary in this city primary. At the other sectors in this city primary is the proposed of the count of its employment in 1965, primary in this city primary. At the other sectors. employment in the extractive industries in the Northern sub-region represented only 3 per cent of total employment. The Centerl subregion had e higher then the regional everage proportion of workers in the extractive industions because of its agriculture; the proportion in the Southern sub-region was around the regional and national evenage.

50. Prespective 78-77 down strategion to the top proportion of female employment in the South West and to be marked concentration in the service sector. Table 5 allower that this North West and to be marked concentration in the service sector. Table 5 allower that this The sation of female employment to be thought the sector of the sect

TABLE 9
Proportion of females to total employees in employment, 1965*

			Per cent
Ана		All industries	Mesufecturing
GREAT	BRITAIN	364	31-8
SOUTH	WEST	35-3	27:3
Northern		35 0	26-5
Cestral		35-0	30-5
Southern		39.6	27-8
Western		34 4	25-8

RECENT EMPLOYMENT TRENDS IN THE SUB-REGIONS

61. It has been noted that between 1800 and 1800 and 1800 and 1800 and 1800 or 7 per cent. The Region is a whole instrumed by about 80,000 or 7 per cent. Contraval with a 5 per cent instrume in Series 18 and 16 september 18 and 16 september 18 and 16 september 18 and 16 september 18 sept

Northern sub-region

92. In the Northern sub-region, total employment grow by 7 per cent, the regional average,

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between 1960 and 1964, although the rise in female employment was slightly slower than alsowhere. The most repid increase was in the Bristol-Severneide sub-division where total employment increased by 9 per cent : the retre of incresse in the menufacturing and service sectors were close to the majoral average, but employment in the extractive industries fell less pipidly then in the Region as a whole. In the North Gloucestrushire and North Wiltshire aub-divisions, both total employment and employment in the manufacturing sector growmore slowly then in the Rapion as a whole. Total employment growth in Swindon was above the regional average, as might be expected of a London oversoil town but menufacturing employment growth was reletively low, since the run-down in the reliway workshops lergely offset expension in other menufacturing activities.

Central sub-region

93. Allowing for the exclusion of Poole from the employment statistics, the Central subrecion's prowth in total employment in 1960-84 was near the regional average. However, there is no clear sub-regional trend, end differences between the sub-divisions ero rather sharper than elsewhere. Manufacturing employment has been felling in the Wellington-Westbury sub-division, with decreases in employment in clothing and footwest offsetting growth in other industries. The growth in employment in service industries and construction in the sub-division was among the fastest in the Region. In the South East aubdivision, manufacturing employment, pertiqularly in engineering and aircraft, has been arrowing more rapidly then regionally, elthough the number of extra jobs has not matched the losses from agriculture. In both sub-divisions, female employment has grown at a rather faster rate then male employment.

Southern sub-region

94. Total employment in the Southern subregion grow by 8 per cent between 1960-64; the increase in menufacturing employment was well above the regional rate, while the growth in services employment was rether below that in the Region as a whole. In the Exster-Torbey sub-division, growth in menufacturing employment has in general been limited to a few firms: in both manufacturing and services, the increase in male employment has been lesser than the increase in female employment. In the Phymouth Ama sub-division, which is dominated by the Devonport Dockyerd and other naval establishments, employment in manufacturing grew rapidly between 1960 and 1962. as already recorded. The growth was met chiefly by females, and male employment in this sub-division in 1965 was below the 1962 level.



TOTALS FOR SUB-REGIONS

West Conswell Sodmin — Exmon

	WESTERN	
0 / 160 200 200 400 100 600 700		أسيلسنا
Fig. 11 Employment Growth 1960-64, by Sub-Regions and S The lengths of the left-hand columns represent the number o and the zolld partiers of the columns indicate the growth in		ment in 1964 560 and 1964. The

right-hand columns indicate percentage change between 1800-84.
Western sub-region

95. In the Western sub-region, the 7 per cent growth in social consciousness in 1850-64 was growth in social consciousness in 1850-64 was considered in the second sub-region of the second sub-region of the second sub-region. West Common (secondile), in particularly disposition on the extraored industries. The second sub-region was common employment in the the second sub-region of the second sub-region was common to the second sub-region of th

UNEMPLOYMENT AND UNUSED MANPOWER

Seasonal fluctuations in employment
39. Employment statistics reflect the maximum level of employment during a year. The South West, however, suffers from prenounced seasonal variations, as that in centers are one-and in cessain activities periodularly—the lovel of emoloyment for mises of the year is marked.

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halow that of the pask summer months. Unemployment fises steeply at the end of several before yeasons. The vettings me between Juria should be the property of the property should be the property should should be the property should should

CENTRAL

in Jane; they indicated a decrease of about 15,000 employee. But the associal swing own of 15,000 employee. But the associal swing own states certainly greater since part of it was masked by continuing greats in employeed in next-severnal activation. The main inclusives when there is a seasonal swing are hostels and colising, road possengar tresspect, distribution, food processing, agriculture and construction. 97. Such pointers so see available succept the

where there is a seasonal saving are hotels and castring, not goosengar transport distribution, food processing, egriculture and construction, 97. Such pointers as are available support the common assumption that the wings so frost significance in the Southern and Western sufregions. Notes and cestaing, the principal ladustry requiring a large proposition of its workers for part of the view only, account for workers for part of the view only, account for the processing of the proposition of the workers for part of the view only, account for the processing of the proposition of the proposition of the workers for part of the view only, account for the proposition of the proposition of the workers for part of the view only, account for the proposition of proposi

11 per cent of total summer employment in the

Andmin-Exmoor sub-division, 9 per cent in West Comwell and 8 per cent in Exeter-Torbay. convoluted with only 24 per cent in the rest of the Region. The out-of-season decrease in numbers of unfilled vacancies is normally most marked in the Western sub-region, mostly in the service sector, and with females affected more than males; the Southern sub-region is usually offected only slightly less. Similarly, seasonal variations in unemployment during 1954-64 were regularly greetest in the Western sub-region, followed in order by the Southern. Central and Northern sub-regions. The demand for seasonel labour in Connwell is agreed over a relatively long period and, with minor expentions, the pask demands do not coincide with the holiday season.

98. It seems likely that, in the Western subregion, at least 5 per cent, and probably much more, of the total employment in the middle of the year disappears during the winter. The offseason rise in unemployment is a visible sign of most of this; but in addition many married women do not actively seek other work after the summer season is over and many immigrant concern worker return to their homes in other regions or abroad. The impact of sessonal influences on the Southern sub-region is a little less sovera, but is still significant in the Exeter-Torbey sub-division. Having regard to the short duretion of peak employment in the tourist areas there must clearly be a substantial amount of under-employment of manpower resources for much of the year. Evidence is lacking, however, as to the extent to which the sessonal workers themselves would be available for regular full-time employment, if it existed.

Unemployment and the pressure of demand for labour

99. Pigures of registered unemployed and of notified unfilled vacancies, while not giving a direct measure of the extent of unused labour resources or of labour shorteness, nevertheless provide an indication of the reletive pressure of labour demend in different perts of the country. The figures since 1954 show that the pressure has been relatively light in the South West compared with the Midlands and parts of the South East. Except for the three-year period, and 1981 to and 1984, seasonally edusted unemployment rates in the Region have been bigher than in the country as a whole since 1954, despite the above-everage rate of employment growth during much of this period (see Figures 12 and 13). The Region's relative position has deteriorated since 1964. Even in summer, male unemployment rates are now higher than in the country as a whole, while female rates are no lower than nationally

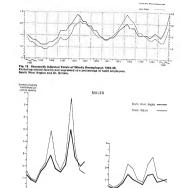
100. The relatively low pressure of demand for labour throughout the year and the con-

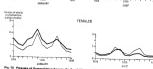
sidentile swings between summer and witner are witner as me man standed in the south and west of the Region, with the highest unexalplyanted levels. The Region with the highest unexalplyanted levels in the Virgonian edition of the Virgonian of the Virgonian of the Virgonian of the Virgonian edition edi

101. Occupationally, unskilled and office workers predominate on the unemployment recieter both in summer and winter, broadly throughout the Region. The most conspicuous difference in the composition of the register in the South West compared with Great Britain is the higher proportion of males goed 55 and over (50 per cent of the male moister in the Region in July 1986, compared with 34 per cent nationally) : this has accounted largely for the bigher rates of male unemployment in the South West (see Table 10) and for the triative increase in male unemployment in the Region since 1954. The proportion of older persons among the unemployed is particularly high in the Southern sub-region where, in July 1966, 45 per cent of the unemployed males were aged 60 or over, compared with 24 per cent in Gross Britain, Personal handleans would hinder some of these older persons in obtaining employment even under the most favourable conditions but many are on the unemployment register only because of the lack of suitable jobs locally, for example derical workers who accounted for 20 per cent of the unemployed males compared with 11 per cent nationally in December 1966, A survey of the characteristics of the unemployed undertaken in 1964 concluded that, in the South West, e rather hather proportion were likely to be readily acceptable to employers than in any other region except Scotland. Comparison of the summer and winter figures in Table 10 suggests that much of the sessonal employment, perticularly in the Southern and Western sub-regions, is taken up by yourner people, who might be expected to he suitable for all-the-year-round employment. Comparative exmines in competing occupations are relevant, but if more employment were excitable in other industries many of the seasonal jobs could probably be offered to older workers who are now unemployed

throughout the year. Activity rates*

102. Provious paragraphs have dealt with that
"Jumps sais the surface of employers by on the expensed as a
personders of the home parameter (patient population and HM
homes) aged 16 or search that sais. AdMin more on the circulated
separately for ususe and for a noticed enter report lesse whi?





4



Fig. 14 Total Unemployment (unedjusted) for each of the Sub-Regions in Jenuary and July of Selected Years. Expressed as a percentage of total employees in the sub-region.

part of the Region's population which is sharedy in employment or a susking it through the employment aschanges. In addition, there are in the South West a principality large number of people—cheely women—who are cutiled the lisbour force of possent: although not registered as unemployed, many of them night be willing to went it jobs of a usuable type with the right pay were available in their type with the right pay were available in their

areas.

103. One estimate of the number of these women could be made by assuming that the proportion of the female population aged 13 or over in employment in the Region (32 - 0 age).

can in 1994) could be mised to the national two (381-2 per cent); but this is not realistic because of two special fectors in the South Wast. First, the replical population includes more of the older and less active age goough (centicularly in the south and west); accordity, the relatively scattered actionant pattorn limits the number of locations where there are enough available workers (especially married woman) to make the establishment of manifesturing or commercial energies worktra-his.

reserve of female labour in the Region may be of the order of 60,000 women under the nonof 60, scattered throughout the Region but relatively most concentrated in the Southern and Western sub-molons. Most of them probably live in rural districts where improved and adequate transport services would be necessary to bring into apployment those who might be aveilable; indeed many may not be available because they are wives or dauntners of self-employed farmers, assisting on the family form. However, there appear to be considerable pockets of unused female lebour in and eround some towns, such as Plymouth. to quantify since much of it consists of men under the ege of 85 who have moved into the Region, particularly the Southern sub-region. on early retirement, but who might be willing to augment their pensions if suitable local jobs were evallable. The fast growth of employment in recent years has had some effect in bringing the inactive into employment and, since 1860, the regional activity rote has risen slightly faster than the national rate, despite the unfavourable chances in the ege structure of the population. Nevertheless, the contribution to regional amployment growth of increased activity rates was much less than that of the increase in the working ege population resulting from immigration, except in the

Western sub-region where both male and

31

female activity rotes increased.

TABLE 10 Male unemployment rates, 1966*

with West Region, excluding Po

55 and ove

4 Agriculture, Forestry and Fisheries

PART III THE REGION'S ECONOMY

AGRICULTURE

The land 106. The location of the Region in the relative to

worm south west of Gavin British gives it in physical investigates for the growth of memy costs, perceiving was, in the coased directly costs, perceiving was, in the coased directly started and above and considerable of the armony of grains over a must interprepared the armony of grains over a must interpret and armony of grains over a must be desired as a second of the contract is also to contract the contract of the contract of the following of the contract of contract of the contract of the contract of contract of con

108. The Pergion has a wide variety of prolegide formations and solds and those are attituded formations and solds and those are attituded to the properties of the properties of the later of the Pergion of the Pergion of the Somerans. Devon and Gloucestanies. The Somerans. Devon and Gloucestanies are areas such as the bill land of Dastmoor and areas such as the bill land of Dastmoor and which the properties of the Pergion of the Pagion is of precape quality, withough one Pagion is of precape quality, withough one that is of preset your economically shen the description would suppert, since the farms are target and the post laudies for portular limitaries.

107. The Inharest quality of the land has en important baring on the afficiency and type of agricultural production. Deepto modern sectionology, these word of the section production, such as poor distings, south in low production fewels and low farm incomes, for example in parts of North Devon on the geological formation known as the culm magging.

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Types of farming 108. Farming occupies five million of the six

million acres in the South Was or about causing the design of the application and in Empirica Causino of the application land in Empirica Causino of the American American American American Causino and Causino of the American Causino Causi

the Region as a whole, times is a significant Littles correge in some districts. The proportion of titlage varies from one acre in sen in pass of discharge varies from one acre in so in pass of Sourcest to one acre in ex on in pass of Sourcest color and in conceased by simple 200,000 acres (about 20 per cent) in the last decade. There has been steps expansion in the bodiey acreep from 240,000 to over 700,000 acres, about one-average of crist, drodge com and artises lated from the strength of the United Kingdom acreep. The acreage of crist, drodge com and artises stated to one has decaded and since the state of the United Sources and acres stated to the state of the United Sources and acres stated to the state of the United Sources and acres stated to the state of the United Sources and acres stated to the state of the United Sources and the state of t

110. Daiving is the deminant tipp of earning in the South Was and in all counted in the Region. The proposition of dairy farms to other star of first in six work in Table 13, and Figure 15 shows the areas of grains seal concernation of milk producers have desirided in security of the star of milk producers have desirided in security of milk producers have desirided in security of milk producers have desired in security of milk producers have desired in security of milk producers have desired in the star of the security o

"All regional date in this ethipter are by reference so administrative recurrent date by rish seafons are not available. number of cows in 1984 was little higher than in 1956. Milk production in the Region is now over 500 million gallons annually. It is by far the largest item of agricultural output in the

Region, and represents 25 per cent of total eith sales in England and Wales. 111. The uplands of the Region-Dartmoor, Exmoor and Bodmin-and to some extent the lowland areas of Devon and Cornwall, support

the rearing of sheep and store catele. Cattle are tattened for beef mainly in the coastal districts of Davon and Comwall, in the Severn Valley, and on the Somerset Lowlands. The proporsion of farms dependent on livestock to a major extent is greatest in Devon and Comwell. 112 As elsewhere in the country, pigs and poultry are increasingly managed on largescale intensive lines, though considerable numbers of pigs are still kept on small farms in

West Corrwell under non-intensive systems. TABLE 11

Mixed farms are traditional in Devon and Conveal and still constitute about a cuarter of the total farms

Horticulture 113. Horticultural crops, especially glasshouse

and flower crops, are of bigh value in monetary terms although they occupy only a small agreedy. In the United Kingdom, berticultural production occupies only 2 per cent of the land under cultivation and accounts for about 10 per cent of the value of 'farm gate' sales. In devoted to horticulture and the value of output is probably of the order of 5 per cent of Tarm gate' sales.

114. Soil and climate have influenced the location of the horticultural concentrations in the Region, which are mainly in Gloucestershire. Somerset, Devon and Comwall and on

Agricultural land use, 1964

Thousand egys Télion College (scene) and hortloultural gressland) Commons Role debte UNITED KINGDOM 11,456 19.111 35.887 15.137 2,710 48,814 ENGLAND AND 14 771 2.351 1.505 29.234 WALES 2 110 4.270 320 210 4.650 723 Connwall 164 14 166 1.461 1,150

TABLE 12

Changes in the proportion and utilisation of grass, 1956-64 1954

	1966		1001		
	SOUTH WEST	ENGLAND AND WALES	SOUTH WEST	ENGLAND AND WALES	
Acres of greating per 1,000 total acres	790	874	760	660	
Grezing Evestock units per 1,000 total acres	288	283	821	268	
Dairy cows per 1,000 total acres	123	87	144	24	
Greating livestock crists par 1,000 acres of greating	365	376	422	404	

"Asses of pracing basiste temporary and permanent grassland, rough greening and basania. Sport core lecture crops, green and rough Printed image digitised by the University of Southempton Library Digitisation Unit



TABLE 13 Types of farm classification, June 1964*

ENGLAND Contrell Gloscestersh

TABLE 14

	Percentage of 'Euli-time' forms						
	Delry ferror	Lilvestock forms	Pig/ positry ferns	Cropping farrs	Hora- outseal heldings	Mixed forms	Total number of full-time forms
AND	39.7	148	66	150		134	157,391
ST	55 0	128	4.9	30	5-9	18 4	29,039
	48-8 43-7 75-9	14-9 19-2 4-1	33 43 88	26 13 20	7-6 4-3 3-7	29-1 27-2 6-7	5,640 8,975 2,402
) e	48-0 69-1 89-5	11-1 9-7 5-9	82 65 7-2	74 16 68	11-0 6-1 3-7	186 108 88	5,280 5,860 2,825

Dosewhere is based on standard mon-days free postures, \$19 and factored. The farms are full-first in the same that they have a labour

Numbers of dairy cows and heifers in milk and cows in calf, 1956-64 1990 1044

	NO.	No.	rea.	74 87570466
ENGLAND AND WALES	2,461,083	2,594,809	2,805,187	
SOUTH WEST	579.620	658.944	669.576	16
Corneel Davon Daniel Gloucestenhine Scrienact Wildship	80,156 117,511 78,240 64,349 143,610 92,664	83,362 141,381 88,773 70,124 166,272 98,042	96,249 164,461 88,620 69,396 167,147 82,713	20 31 15 8 16

the lates of Scilly. In Gloucestershim, growers

Cornwall particularly benefit from local sales of their produce to botels and other categors.

union the advantages of proximity to lesse urban populations and mady access to good communications to the Midlands the North and London, Growers in Devon and Cornwell and the Scillies benefit from a favourable dimate for overwintered and early crops, such as flowers, broccoli, spring cabbage and early potatoes, but have the disedvantage of remoteness from their markets. This is particularly so for growers in the lates of Soilly whose produce. mainly flowers, has to be brought by see or air for land transport to the market. Adequate road end rail links with large population centres ere necessary if the early perishable crops of the for south-west-vogetables, flowers and soft fruit-ere to be merketed in good condition to compete with imported produce. Some provens have joined together in co-constitive marketing and there epoears to be further scoon for this.

In the tourist season, growers in Devon and

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Structure of farming 115. There are some 57,000 holdings in the Region, about 22,000 of which are smaller than 20 acres. Even on high quality land, it is almost impossible to make a satisfactory living from farming such en ecreage without forms of production which do not depend on the lend to any extent, such as intensive pig or poultry enterprises. The proportion of land on the Region's smaller holdings is about the same as in England and Wales as a whole but there are variations within the Region (see Table 15). Thus, compared with England and Wales, Comwall has almost twice the proportion of land on holdings of less than 50 ecres. Devon has three-quarters of its land on holdings of 50-300 acres compared with national and regional everyges of about 60 per cent, while

TABLE 15
Distribution of crops and grass acreage between holdings of different sizes, 1964

	en			
	of less than 50 acres	of 60-300 acres	of more than 300 acres	Total acseage of cases and gress
UNITED KINGDOM ENGLAND AND	13.5	56 6	29 5	30,686,463
WALES	11-5	57-0	31-6	24,378,343
SDUTH WEST	11 6	630	254	4,259,806
Coreanal Devon Dorver Glosgostershika Sorremet Witchine	19 8 12 0 7 6 9 0 12 4 8 6	71-1 77-6 48-7 64-0 69-0 40-0	9-1 10-5 43-7 27-0 18-0 64-4	\$28,200 1,158,646 480,666 995,060 796,062 630,275

TABLE 16

Holdings of different sizes, 1964 Measured in terms of crops and grass acreage

	Passent			
	of less than 50 acres	of 50-900 nores	of more than 300 sees	Total number holdings
UNITED KINGDOM	63-3	32-6	41	446,132
WALES	60.0	35 4	46	323.047
SDUTH WEST	56-7	39 6	2.7	57,107
Conwell Description Description Description Sorrerunt Witnhyre	68-0 90-6 93-7 93-2 97-9 92-0	33-8 47-6 38-9 34-0 39-7 37-0	1 2 1 6 8 0 6 8 3 0	12,288 16,135 4,571 7,289 11,674 6,170

over half the lend in Witthire is on holdings of over 300 acres—almost twice the proportion in lingland and Weles. Table 16 shows that, proportionately, there are more small farms in Cornwell (portischedy in the catterns west) and in Gloucestective (mainly in the Forest of Deem than description.

and in Gloucestershire (mainly in the Forest of Deen) than elsewhere in the Region. 118. Changes in the total acreage of land on

holdings of different sizes are allown in Figure 1 into an except or some one of the size of the size

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nete of amalgamation is probably a little slower in the South Wast than elsewhere. It remains to be seen whether ecceleration will result from the incentives towards voluntary amalgamation which are provided in the Agriculture Act 1967.

Size of business

117. It is important to distinguish between the acrosps of a holding and the size of the ferm business associated with it. The intensive production of pigs and poultry on a large scale needs only a small acrosps; a big hild form on poor land may support only a small farm butiness. Acrosps may, however, impose personned limitations on the size of the business, especially with a small farm on poor land or

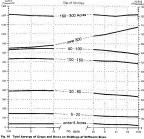


Fig. 16 Total Acresge of Crops and Grees on Holdings of Different Sizes. Messured in terms of crops and grees acresge.

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where the fermer lacks resources, whether of money or skill, to supplement his inadequate acreage by intensifying his system of production.

118. A moest publication—The Specters of Applications (1986)—gives details of the number of holdings associated with businesses offitters state in the United Kingdom. Larger holdings' are defined as howing a subcribe control of the control of the

119. The size distribution of form businesses in the Region is similar to that in the United "Import make in the Makey of Agidness, Rebries and Food methods by the size of landers for the size of landers for the size of landers of o

Kinndom as a whole although the opportion of modium-size farm businesses is somewhat lerger in the South West. There are about 11,000 medium-size farm businesses in the Region, about one-sixth of the total in the United Kingdom. The Council estimate that these produce between 30 per cent and 40 per cent of the value of the farm output of the Region. The very small farms which afford less than full-time employment for one men tend to be associated with the areas on outskirts of towns and with long-established mining and quarrying eress such as Camborne-Redruth, St. Austell and the Forest of Dean; they are also numerous in East Docast. At the other end of the scale, much of the Wiltshire and Dorset chalk lands and the Cotswolds have much higher proportions of large holdings than the regional or national averages.

Land tenure 120 Reciprolly and optionally the number of

holdings in owner-occupation increased considerably between 1950 and 1960: in the South Wast, the number of wholly owned holdings increased by 13 per cent and the lend on such holdings by 11 per cent (see Tebles 18

TABLE 17 Holdings of different sizes, 1965 Measured in terms of labour requirements

	1,200 SMD and over	800-1,199 8MD	275-599 SMD	276 8MD	holdings	
			1000			
United Kingdom England and Weles South West	42 34 6	67 54 11	96 68 13	201 160 26	408 308 58	
	Percentage					
United Kingdom England and Wales South West	10 11 8	16 18 20	25 22 24	60 48 47	100 100 100	

Very small

TABLE 18 Land tenure, 1950 and 1960-61

Wholly ewned		Wholly mnted		Peri-covered Peri-motori	
1860	1980-61	1960	1960-61	1850	1980-01
36	47	49	87	18	16
36	61	45	82	17	17
36 42 36 42 36 36 36	46 59 48 53 65 67	62 44 48 40 38 48	41 27 37 29 28 35	12 14 16 18 27 18	13 14 15 18 20 18
	36 38	36 47 38 61	36 47 49 38 61 45	36 47 49 37 38 61 45 32	36 47 48 37 18 38 61 45 82 17 35 46 52 41 12 42 59 44 27 14 50 48 69 37 10

Percentage of holdings

Land tenure, 1950	and 19	60-61				For each
		Acr	regs on ha	kirgs		
	Wholly	owred	Wholly	neted	Part-ou	
	1900	1980-61	1960	1900-61	1950	1990-61
ENGLAND AND WALES	27	37	54	41	19	22
SOUTH WEST	29	40	50	37	21	23
Conyvell	31	40	66			**

and 19). Devon had the greatest proportionate possess in both land and holdings wholly gented: by comperison, Cornwall had a relatively low rate of increase-lower than the average for England and Wates in respect of both the acreage of land and number of holdings. By 1960, just over half the holdings in the South West were owner-occupied. Devon had the highest percentage of owner-occupied holdings, while Somerset still had a lower proportion than any other county in the Region. In Somerest, there is a high percentage of partowned, part-rented holdings because of the graction, in certain districts, of letting grazing entually to the owner-occupiers of neigh-

121. No regional figures more recent than 1960-61 are available on land tonure except for the information about Devon in a recent survey by the University of Exeter." However, them is no reason to suppose that the trend towards owner-occupation has been internested, although the rate of change is slow, When a firm is bought at the present time, the renchaser usually intends it to be farmed either by himself or his son. The return on capital is to low to make land ownership for letting an amounties investment, particularly at today's varient nossession prices.

122. One of the advantages of the landlord/

bourns farms.

capital for the purchase of the farm, leaving the tenant to finance the running of it. The owneroccupier has to provide capital both for purchasing and working the ferm. The present trend towards a smaller labour force makes it men more important that there should be enough capital to buy machinery and improve buildings, for which the owner-occupier who has spent most of his capital in buying his farm may have difficulty in finding money.

Agricultural manpower

123. Apriculture and horriculture in the Region afford employment to well over 100,000 neonle. telding self-employed fermers and growers and their workers together. The 1961 Consus showed some 56,000 farmers, form monagers and market gardeners in the South West. At present, about helf the farms in the Region orcitor no workers, the farmer providing both the menagerial skill and the manual lebour. The self-employed are a particularly high proportion of the agricultural labour force in Devon and Comwell, reflecting the great number of relatively small family forms in these counties. 124. One of agriculture's contributions to the

national economy is the release of mercower. in the South West, as in other parts of the country, there is a steady decline in the number Apleshed Sourceits Department, University of Euror; The Sound Fare Source; 1505, in source of publication.

between 4 per cent and 5 per cent annually. The substitution of mechinery for menpower on both grass and arable land has made possible substantial economies of labour in many field operations. The same degree of economy in the use of manpower has not yet been achieved in systems of thestock farming, although the adoption of better working methods and improved layout of farm buildings has permeted some saving of labour in operations concerned with housed ilvestock, particularly in dairying and pla-keeping. Such changes impose further demands on farmers' copital. It is pertinularly difficult to achieve anough asymps in manhours to dispense with a worker in the case of farm businesses employing only one man epert from the farmer. Probably 20 per cent-25 per cent of the farms in the Region are in this category. If the migration of labour out of farming continues, these farmers may be faced with the difficulty of either contracting their farm business or making a major—and possibly costly-morganisation

of farm workers, which in recent years has been

125. Another problem connected with manpower is the occurrence of seasonal peeks of work in most types of farming. These may be met by overtime, by changes of farming system to smooth out the demand for labour over the farming year, or by further mechanisation. In horticulture, where the ability to plan and tenant system is that the landlord provides the harvest a crop to time is vital, there is not yet the same opportunity to substitute mechinery for hand labour end a supply of seasonal casual labour is espential.

Labour productivity

126. In the decade 1954-64, the volume of agricultural output in the Linited Kingdom mass by rather more than one-third, and labour productivity increased by 5 per cent-6 per cent a yeer. Although there are no regional calculations of productivity, the information available to the Council sungests that the Region's productivity has increased rather less rapidly than the national rate.

127. Increased productivity can be achieved pertly by the investment of cepital and partly by the adoption of improved techniques and materials now available in most sections of the industry and its ancitiaries. For example, in darrying with the larger herds it is now not uncommon for a man to milk up to 80 cows or even more, whereas ten years ago it would have been considered very efficient for a man to milk 40 cows. Both nationally and regionally it is difficult to achieve such standards of efficiency on meny of the dairy farms, because of the smell size of herds. In 1964 the average size of herd in Devon and Comwall was only 19 compared with 35 in the other four counties : in the whole of England and Wales it was only 28

128. University invastigations have shown that lebour productivity is higher on the holdings of terner acroage. If, therefore, holdings which are no longer truly commercial are taken on by neighbouring farmers then the mercare size of holding will increase and the productivity of the labour resources of the Region can be

Farm incomes and farm workers' earnings

129. Reference has already been made to variations in ferming within the Region. In some districts farm structure is good, with the size and layout of units well adapted to the need of large-scale, highly mechanised production methods. Eisewhere the position is far less satisfactory. Present economic pressums are likely to be felt most keenly where there is a high proportion of small (or even mediumsize) farms on noor quality or difficult land. incomes on many of these forms are low, despite substantial financial help from the State. After allowance has been made for the living expenses of the farmer and his family, there is often little income left to provide capital to improve the fixed or mechanical equipment, to purchase additional land or to buy stock to intervilly farming on the holding; nor is it easy for such farmers to borrow money.

130. There is some evidence that the weekly earnings of farm workers in the Region as a whole ere slightly below the average for England and Wales (see Table 20). There are no reliable statistics for different parts of the Region, but the indications are that, on average, earnings in each county do not differ meterially

from the regional figure. Figures of average TABLE 20 Average earnings of all hired regular whole-time adult male agricultural

workers

	Yesel over year crider 1955	age eersegs, I September	Morzovar, it would to borrow capital
	Shillings per week	Percentage of mesonal mystage	forms the possible from other source has particular and University of Ex-
ENGLAND AND	266	100	economics of the end Cornwell, to
Northern Yorks and Lence. Fact Micland West Micland	252 270 207 272	58 302 100 102	Chapter 7, will subject.
Eastern South Eastern South Western	260 276 258	102 98 103 97	FORESTRY

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earnings, however, conceal considerable variations from farm to farm. For example, farmers in the industrial parts of the country may pay more than the minimum wags to attract or keen workers. Productivity egreaments and contract milking and bonus schemes are being more widely adopted end lead to higher then average earnings

Capital in agriculture

191. The current investment in farm buildings and works in the United Kingdom is of the order of £68 million annually; investment in plant, machinery, vehicles, stocks and work in progress may well be £165 million annually. Probably the largest single source of funds for investment is farmers' profits. But there are other important sources-for example, landlords' net rents (rents less expenditure ne meintenance and repairs); quants from the Government, whether to farmers (which show up as part of net moome) or to lendowners through the Farm Improvement Scheme ; book credit, of which an exten £28 million was made available in 1965 over the figure for 1964; and credit from a variety of other sources such as the Agricultural Mortgage Corporation, auctioners, private loans end-an important source—the agricultural merchants.

132. There are no regional or county statistics of investment in egriculture and homoulture of the aveilability of credit. It is not possible to say for certain, but it is a reasonable assumption, that farmers and growers in the South West are no less able to borrow and are in the main no ices willing to invest than formers disewhere.

133. There is little information about the sources and use of capital in the Region, it has however, stroody been policial out that the ohief source of capital is farmers' own income. If farm incomes in any pert of the Region are significently lower than average, it is more difficult for the farmers concerned to make the investment necessary to increase their size of es or to modernise their equipment. war it would be difficult for such farmers row capital for improvements. On such the possibility of augmenting income other sources, such as tourism, therefore articular interest. It is boned that the sity of Exettr's investigation of the mics of the holiday industries in Dayse ornwall, to which reference is made in or 7, will throw more liabs on this

134. There are about 270,000 ages of woodlend in the Region. Rather less than 200,000 acres are under scientific management; the Forestry Commission own about one-third of these, and about two-thirds are under private coverantly. The remaining 70,000 ecres, also privately owned, see largely unproductive; although some will eventually be brought under management, much will ermain unproductive signey because they carnot be worked

profitebly.

136, in size Commission's forests, more than 30 per cent of the plantations are conference (grounding settlement) and less than 10 per cent of the plantation are conference on properties are in line with the commerce of control of products, send reflect the quality of the forestiand, much of which is too per to grow hardwoods. Private owners send to grow more broad-lessed species, but are greatly changing

over to produzing a higher proportion of the contiest which are more profitable. 138. The Commission's woodlends currently produce over 25000 tens of hardwoods and 88,000 tens of softwoods per ansum, end the private woodlends produce about 190,000 tens and 78,000 tens respectively. Production in the Region postley involved by one-thard over the next tewnry years, and through a should be a revolved from the first tension of the should be revolved to the should be should be a revolved to the should be a revolved to the should be should be should be should be a revolved to the should be sho

137. Some 2,000 people earn their livelihoods in forestry in the Region. The industry also provides employment indirectly to large numbers of hauliers, sew millers and wood processors.

FISHERIES

138. In 1955, total landings in South West fishing ports were valued at £800,000, compared with £61 million for the United Kingdom. About 700-full-time and 1,000 part-time workers were employed in fishing in the Region companed with 20,000 and 6,000 respectively in the United Kingdom. The fishing indicastry also provides employment in related activities such as read and gent manufactorus, both subsiding and separas, fish processing and lor-making, Affresport in the Processing and Indicastry also processing and lor-making, the processing and lor-making the processing and lor-making

have been maintained.

138. Needyn is the most importer fishing port, and its market etterate fish feem other ports up to 30 miles away. It is therefore viral to the existence of the smaller fisherines in that one. Needyn obec etterates once ferviain and. Needyn obec etterates once ferviain their machanel ceech. Bishiram is the second fishing port and Its fishing is expanding. A Fisheriman's Co-operative has been formed successfully at fertherm and the late may be successfully at featherm and the late may be

140. Newton and Beldwam together account for about 50 per cent of the total landings in the Region, the remainder being handled at the many small behaviour and coses in risks. Many of the smaller filtering ports are now more concurrend with holidymathers, lithhough them is stiff a small amount of shell fishing, in perticular, there has been a served of onto had lobater fairing off the north coast of Comwell and there is now a usualful export table to Prance, thosewar, the pichael followers.

have persistent merketing difficulties.

141. The rivers of the South West provide some commercial salmon not fishing and a great deal of privete angling, perticularly for trout, as well as cores fishing.

5 Mining and Quarrying

PART III THE REGION'S ECONOMY

142. The South West Region possesses extentive mineral resources, some of which, for example coal limestone, igneous rock, occur commonly in Britain, while others such as chine clay, bell clay, tin and colestine are found only in this Region. The labour force employed in the minute and quarrying industries has remained relatively stable since 1960 of about 17,500 people. As Table 21 shows, the loss of jobs through the closure of coal mines in the Region has been counteracted by a fairly rapid expansion of amployment in other mining activities and in querrying.

TABLE 21 Employees in employment, mining and quarrying. 1960 and 1965*

	1960	1955	
Total in releing and quarying	176	17-5	
of which; Coal mining Stone and siste	4-6	24	
querylep and reinleg Chelk, cley, send and	8-6	0.8	
Other workings	6-6	8-0	

143. Employment statistics alone do not demonstrate the full importance of mining and quenying not only to the Region but to the nation because these largely capital-intensive industries require a relatively small labour force. 144. Quarrying and mining (other than soul) are especially important to the economy of the West Cornwell sub-division which possesses an unusual diversity of mineral resources These extractive industries account for about 8 per cent of the total employment in the Western sub-region compered with 1-3 per cent in the Region as a whole. The St. Austell thing cley industry provides the bulk of the employment of this kind but there is also a fair-sized labour force engaged in other mineral

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extraction and quarrying for road atoms and granite.

China clay

145. Conwell and Devon have the only workable deposits of chins clay in Great Britain and production is now mainly concentrated in the St. Austell area with other workings in the Lee Moor aree of Dertmoor and on Bodmin Moor. This industry is prosperous and expanding: production of chine clay has increased from 1-6 million tons in 1960 to 2-1 million tons in 1965. The importance of china clay to the British export trade is strikingly illustrated by the fact that exports have risen from about 1 million tons in 1960 (value £7-6 million) to nearly 1.5 million tone in 1955 (velue £12 million). The United Kingdom is the lergest exporter of chins elsy in the world

146. The quality of china clay and the coso of working varies from pit to pit. Because of these fectors, together with a constantly changing pattern of demand and the advance of production techniques, it is not easy to programme precisely the land requirements of the chine clay industry. Pits which are, for one sesson or another, temporarily abandoned as uneconomical to work are frequently brought into operation again with a change in demand or with the development of a new production Drocess

Ball clay

147. The caremic clave known as bell clay are found in the land flenking Poole Herbour. between Newton Abbot and Boyey Tracey (where there are both underground mines and open pits) and around Meeth in North Deven Bell clay is guarried only in this Region of the country and output is more than 500,000 torse ennually, of which about half is exported. These exports have been rising steedily from 230,000 tons in 1980 (value £0 8 million) to 300,000 tons in 1965 (value £1-2 million). There are still lange reserves of boil clay in South Daving

Tin and copper 148. Two tin mines in West Cornwell are all

that at present assive of the historic in and opport miniting functions in Cornwell and Decen which go book to pre-Romen men and out the result in the present minimal problems of the pre-Romen men and with metallic minimal problems of the present minimal problems of the problems of the problems of the problems of deep minimal and committee the minimal problems of deep minimal and committee the minimal problems of deep minimal and committee the minimal problems of deep minimal problems of the problems of the problems of deep minimal problems of the prob

146. With record two-unable prices in the world makest, actions have again turned to the Corenal. A sumber of major minima comme we activity proposed major allow a comme we activity proposed major allow promoting the whole length of the mineralisad beta between Deuthor between Reduch and Lindris fatt. Offisions costs an also being investigated, and exherts to work the hearing sands by designing its under vary in St. It was Bay. Developments are accepted to the control work of the hearing sands by designing its under vary in St. It was Bay. Developments are designed as an activity of the second state of the proposed for treatment to the second state page on proposed for treatment and durings and state of the second state of the procession of

Coal

produced annually.

150. Although coal has been extensively worked in the Bristol-Redstock area for over two hundred years and in the Forest of Dean since medieval times, coalmining now is of little significence in the regional aconomy. There are only three small colliaries still operating in the Badstock area and they produce less than 500,000 tons eyear. One of these collieries. New Rock, is to be closed shortly because reserves of cost are exhausted and the two remaining, Kilmersdon and Writhington, will produce less than 250,000 tens of coal a year with a lebour force of about 500 men. The last colliery in the Forest of Dean closed in 1965. but a small amount of goal is still won from the private 'dales' which are worked under traditional rights granted to miners who were born in the Hundred of St. Brisvels and who have worked a year and e day.

Limestone

151. The South West is the greatest limestome producing region in the occurry with on output in 1586 of shout 10-3 million tens—about 10-28 million tens—about 20 per cent of the total producini in England and Wides. Quantiss in the eastern Mandiga and Wides. Quantiss in the eastern Mandiga with the control of the con

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Imissions produced is used within the Region. Quarrying in the younger imissions of the Cotewoids and near the Donest coset produces speed building of the control coset produces produced and Purisock stones which have sention-wide merices. The Portland stone industry practically doubled in size between 1899 and 1890, mainly because of the increased use of Portland stone is presigned to the produce of the produced of the produced of the produced produced to the produced produced

Igneous rock

152. Commell, Devoe and, to a losser coster, to some content to make source of ligenous rock comments content to the high moderate accept motivation and the high moderate accept moderate acceptance of the high moderate acceptance of the moderate acceptance of the moderate acceptance of the moderate of the moderate of the moderate of the moderate of the fact that production aims of double form the 1547 before the moderate for which is above by the fact that production aims of double form the 1547 before th

Sand and gravel

153. The renduction of send and reveal in the Region in 1965 amounted to 5 -B million cubic yards-about 7 per cent of the total production in England and Wales. About 20 per cent of the regional production was used as building sand and 30 per cent as concreting sand, the remainder being gravel and hoppin. About 33 per cent of the total production is derived from pits in Gloucestershire and Witshire, in the river gravels of the Upper Thames Valley around South Cerney and Lachlade. There are other important sources at Warmwell Heath, Dorset. between Budleigh Salterton and Uffculme in Davon and from the Severs Valley gravels. Dredging in the Bristol Channel also provides sand and gravel and some concrating send is won from the obing elect waste tips in Comwell.

Other minerals

Region includes chalk, malely in Dorsat and Wilharkine, brick clay and sandstone in many places, and sites at Delabote. North Comwall. On Destronce, a small emmant of inpn one is worked as a source of miscerous hismetics, used in this mentification of end-companies. Earthy ferruginous deposits are worked are Beldedord and Bistod; he products ventously known as colon, unber and instead on the second of the products of the produ

civil engineering industries. An area round Yate

154. The range of other minerals worked in the

TABLE 22 Derelict land, 1965

	Spall Heeps		Expendions and Pros		Other Forms	
	Total ecreage	Acresge justifying treatment	Total acreego	Acreege justifying tresoners	Total streage	Acresse justifying Destroys
ENGLAND SOUTH WEST Hatthern Central Southern Westurn	33,014 14,260 374 73 1,667 12,136	17,796 2,018 150 18 323 1,627	27,007 1,728 250 610 229 640	14,804 469 21 373 22 34	30,965 2,867 408 87 966 1,414	21,377 1,012 130 53 633 109

in Glouosstershire produces 75 per cent of the world cuptut of celestine, a rare strontium mineral which is used mainly in the pyrotechnic industry.

Dereliet land

155. This is an appropriate point to refer to deraffet land in the South West, since the Region's problems are mainly the consequence of past and present mining and quarrying.

156. In 1965, there were 18,866 acres of derelict land* in the South West. This is onelifth of all the derelet land in England but. allowing for its size, the Region has less of its land derelict (0-3 per cent) then the more industrialised West Midlends, Northern and North Western Regions.

157. Table 22 shows the distribution of derelict land in the Region. The problem is most scute in the Western sub-region, which has some 75 per cent (14,200 scres) of the Region's dereitet fond and over half the land inselfvino recismation treatment, malely in the form of social beams from metalliferous mining and stone quarrying in the Cambone-Reducts and Lend's End aress. About 1,700 ecres of the classific land in this sub-region are closmed to justify treatment. The Southern sub-region has about 15 per cent of the Region's deselict lend (2,900 scree) mostly in the Plymouth Assa sub-division; about 1,000 acres are deemed to justify treatment. The remaining 10 per cent is in the Northern and Central sub-regions and is associated mainly with the collery appli heaps

of the Forest of Deen and Norten-Revised areas, the stone quarries in the Mendips, sed the clay workings in the Bridgweter ass. Some 800 acres in these two sub-regions justily reclamation.

158. Grants are payable to local authorities under various enactments for the treatment of derolict land. During 1965, some 88 areas were metalmed in the Region, about 2-fi ne cent of the total of nearly 3,500 some which justify reclamation. Local authorities processed to reclaim about double this acreege in 1966.

189. Unlike many other regions, the South West has suffered little dereliction from industrial development, but the legacy from the tin and copper mining in the far west is very extensive, particularly in the Cemberre-Redruth area. With little pressure of development, such small reclamation as is being carried out in Devon and Comwall is primarily for amenity masons. Contriting has not dominated and scarred the rural scene in Gloucestershire and Somercet as it has in other parts of the country. Many of the old spoil heaps in these ereas have elready been povered with trees and other vegetation, sometimes by intent and sometimes by nature, and happily the hely terrain has itself provented much upliness. Wet gravel workings are increasing in the Upper Thames Valley on the Gloucestershire-Wiltshire boundary and pose considerable problems. In certain cases they can be utilized for boating, swimming, fishing and nature study, as at South Corney where some of the worked-out grave! pits are already in use for recreational purposes and where there are proposals to orgets a new inland holiday resort complete with residential and recestional facilities. The most formidable restoration problem in the future may centre on the expending ohins clay industry. Some use can be made of the quartz send waste for concrete

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production, although not at a rate commercurece with the growth of the tips.

6 Manufacturing

DART III REGION'S ECONOMY

160. The manufacturing sector is not of the same importance in the South West according as in some other majons, but it is nevertheless on a sufficient scale to make the Region an irreportant contributor to national manufacturing output. Figures of regional output are not evaluable for later than 1968. In that year, the net output of manufacturing industry in the Region, excluding Dorset, was valued at £339 million or 4.4 per cent of the total for Greet Britain; the number of employees in employment in the manufacturing sector was also 4-4 per cent of the Great Sritein total. In 1955, the Region had 4.5 per cent of the country's manufacturing employment, compered with 6-7 per cent of all employment and 6-7 per cent of the country's population. In the Region, the manufacturing sector accounted for 30 · 3 per cent of all employment, compared

with 38-2 per cent nationally. 161. Perhaps the most distinctive features of manufacturing in the South West ere a merked absence of 19th-century heavy basic industry and a considerable diversity which includes many modern types of industry: a comparatively fast post-war rate of employment and factory building growth: a steady postsecond world war infusion of new menufacturinc units from outside the Breton: a marked concentration in the Northern sub-stoion : and a number of large units located in comperetively small towns. The South-western Development Area accounts for only about 6 per cent of the Region's menufacturing employment.

162. Manufacturing industry serves a wider area then that in which it is located, and a large proportion of the Region's manufactures are sent to other parts of the country and overseas. The Martech Study* commissioned by the Port of London Authority estimated that the South West's direct exports of goods abroad in 1965 were about 3 per cent of the value of total exports, probably somewhat less than the Region's share of manufacturing output. There are substantial exports of, for example, aircraft and aviation equipment, compressors, mechenical handling equipment packaging and printing machinery, diesel engines, electronic equipment, shoe-making machinery, components and equipment for vehicles, cellophara waspoings and paper products, carbon black, textiles, dothing and footweer, food-

163. Despite its apparently small share of direct exports, industry in the Region alves the impression of bising axtremely synget-minded and of playing an active part in the country's export efforts. The Bristol Chember of Commerce and Shipping and the two large export groups, the Bristol and West Exporters' Club and the South West Export Association, have provided a marked stimulus to the Region's export effort

stuffs, clenk and tobaron products.

Structure

developments.

164. Technologically advanced industry is well represented in the Ragion. The 1961 Census showed that the South West compared favourably with the country as a whole in scientific and technological manoower, with a proportion of such manpower to total employees in manufacturing industry 11 per cent above the national proportion. The regional proportion is particularly high in the lerge aircraft and serospece industry. A good deal of the more recent manufacturing development in the Region has been in science-based industries, such as chemicals and electronic enginearing, and the more traditional industries such as heavy engineering and printing have

also kent well in sten with technological 165. The main structural features have been Indicated in Chapter 3, Engineering and electrical goods, the largest single group of industries, are rether less important than

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nationally, particularly on this elsevicial side. There is, however, is ligor senjinering element in the vehicles group of irreduction, which where it is frequently in the vehicles group of irreduction, which where the Region has above—energy representation. This employment data in Chapter 3 on Histories and connect the descript of manufacturing industry in the Region. The group of the region predominant end entropects industrial signal solution and discover industrial signal solution and discover in the region of the region of proving interesting.

180. Despite for tack of heavy inclustry, the Region has protably a stather higher than wrenge share of cephtal goods production. It has clashy a bower alone of ceptual goods production, it has clashy a bower alone of certain of the production bacause of its compountively amail table in the object of motor care, domastic spellieross and furnitum. But it may well have component for a kindowy it blacks a large inselfer and distribuility blacks as large inselfer and distribuility that the production, in food, balance and stooking reduction.

in Took, tobation and sold costing in 107. Except for ion and sold costing in connection with originating, there is no privately not existed production in the league. The Benon Risport suggested that now non-integrated and support may need to be asked on the Michaels—South East coopreducing that is superior may need to be asked on the Michaels—South East coopreducing that is superior than the producing that is superior than the research of a but some economically. The manness of this but some economically. The manrice of the support of the companion of the superior than the superior than the control of the superior may need to be searched for that subshifts for any such more people.

168. No detailed analysis of the structure of industry by commany grouping has been made but it is clear that manufactoring in the Region as a whole is not deminated by a few large companies, otherwise the position vertex from a water than the structure of the

THE MAIN MANUFACTURING INDUSTRIES

Engineering and electrical goods 169. Some 30 establishments, each employing 500 or more workers, account for about

No. So-in so trausaramente, econ empoyne (50 or more vedura, socione tria para
half of the employment in mechanical vegionerhalf induction of producte impostants are the lurgest
that the half in the producte impostant toproduct of product product in the sevaluant totrial data halfs, the flory is traver in the sevaluant totrial data halfs, the flory is traver in the sevaluant totrial the sevaluant toproduct the sevalu

diesel engines and agricultural machinery. havey mechanical handling equipment, crosses and dock machinery, hydraulic presses and injection moulding machines, mining equipment, compressors, high pressure valves. printing and packaging machinery, ball and roller bearings, pistons and piston machinery in electrical anglinearing, about a dozen establishments, employing 500 or more workers each, account for nearly two-things of the employment. The main products are radio and other electronic apparatus, alarmical machinery, domestic electric appliances and miscellaneous electrical goods. The group as a whole includes a considerable number of large compenies, too numerous to illustrate by name.

Vehicles

170. The aircraft and aerospace industry, with 43,000 workers and quite a wide sub-contracting complex, dominates the 'vehicle' manufacturing order in the Region, where it armines three times the national proportion. About a dozen lasse firms account for the bulk of the regional amployment. The three largest ere Bristol Siddeley Engines and British Aircraft Compression on the outskirts of Bristol, and Westland Aircraft Ltd. at Youvil, the sole producers of helicopters in Britain, A number of other firms make alreraft equipment and instruments, the largest being Dowcy Rotol at Gloucester and Smiths Industries at Cheltenham. In motor vehicles, the main unit is Pressed Steel-Fisher at Swindon (car bodies and components). A number of other firms make communical vehicles or vehicle components and associated products. In focemotives and railway equipment the main units are the British Reil Workshops at Swyndon and Westinghouse Broke & Signal Company at Chlonephon

171. The regional engineering and vehicle groups together employ 168,000,42 per cere of total instruktioning employment in the Region (compand with 38 per cert in Great British). This altered and secopopor inclusingmotor our bodies and components, tell-communications and consumer durable goods in the communication of the communication and consumer durable goods from the communication and consumer durable goods from the communication and consumer durable goods from the communication and communi

Other manufacturing industries 172. In the food, drink and tobacco group,

there is particular emphasis on becom curring, coursepes and pies, milk and milk products, lonceam, thocolate, confactionery and jame. The largest employers are J. S. Fry & Sons. Uniquite Creameries, Bowyers (Willthire) and C. & T. Harris (Calre). The tobsoco industry, reconsented by the Imperial Tobacco Company moun employs three times the national proportion.

173. Employment in paper, printing and pubdeline is about equally divided between the pager and board industry, in which ragional envolvement is above the Great Britain average. and evicting and publishing. The largest components in this section are those of the E S & A Robinson and Imperial Toberon groups in the Bristol area, and, outside it.

Durrell & Sons at Paulton. 174. About half the employment in clothing and footivear is in footwear which has about twice the national proportion. The two large footweer production units are C. & J. Clark at Street, Somerset, and G. B. Britton & Sons at

Kingswood, Bristol; there are also a number of smaller units, mainly in Somerset and Devon. 175. The regional shipbuilding, ship repairing and marine engineering industry is dominated by the Navel Dockvard at Plymouth. The other large unit is Silley, Cox & Co. of Falmouth. Ship repairing and re-fits are very much the main activity. Shapbuilding itself is on quite a small scale, although there are numerous

176. Other manufacturing industry groups are smaller, but span a great range of products. Some have historic mots in the West Country such as wool cloth and gloves; others are compensitively new. Producers are mostly mediumusion or small. There are few large employers: the main ones are Avon Rubber Co. in Wast Wiltshire; Imperial Smalting Corporation at Avonmouth : British Cellophane Co. of Bridgwater; John Heathcoat & Co. at Tiverton and, a more recent entrant to the

small-boat builders.

Region, ICI Fibres at Brookworth. Local dependenca

177. With its large number of smaller towns. a feature of the Region is the degree to which the fortunes of particular localities are linked with large manufacturing establishments Table 23 shows that the geographical distribution of these establishments veries considerably over the Region, and Table 24 shows the dependence of particular localities on the employment provided by such large establishmonts

178, Bristol, with 18 exteblishments, each with 1,000 or more employees (48,000) employaes), and Swindon, with six such establishments (23,000 employees), appounted for nearly half the total of 155,000 employaes in Table 23. Except for Phymouth, these and other large town areas were not unduly dependent on large manufacturing establishments. Plymouth, however, is highly dependent on a single establishment the Navel Deckward (the Dockyard comprises a rather mixed set of activities, not all manufacturing). Four urban employment areas (Keynsham, Molksham, Dursley and Chippenham) had 30 per cent or more of their employees in such establishments, and 12 other grass besides Plymouth had between 10 per cent and 30 per cent. Of 13 menufacturing establishments employing 1,000 or more outside the Northern sub-region, sight were in localities with a fair or marked degree of dependence on them.

town's residents alone were taken into the reckenion and evan more so if calculated in relation only to employment in manufacturing. Adding firms controlling more than one such patablishment in a locality for avamole at Tiverton, or considering the linked clay extractive and processing establishments, as et St. Austell, would bring a few more places into the dependency reckoning. Furthermore, some other localities are noticeably dependent

179. The extent of decembers would appear

greater in some cases if employment among the

on establishments which employ less than 1.000 but are still large for a relatively small place. The picture of dependence is modified to

TARLE 22 Manufacturing establishments employing 1,000 or more in 1965

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	1,003–1,959 employees		2,000 end over employees	
	No. of establishments	No. of employees	No. of establishments	No of employees
OUTH WEST	32	43,000	24	112,000
Northern Central	27	37,000	18	\$1,000
Southern	1)	6,000	4)	31,000

TABLE 24

Areas in which largest manufacturing unit had 1,000 or more employees in 1965

Over 30	10 and under 50	Under 10
Kinyashera Melkahara Dansley Chippenhera	Tensinabury Forest of Deen Chaping Secloury Missioner Norton Transledge Street Bridgenster Yeavit Gasup Newton Abbot Phigmanh Grego Physich Grego Physich Grego Physich Grego Physich Grego Physich Grego	Gloucester Chelesham Stread Bash Bustol Group Swindon Poole* Waysrouth

Felmouth

some extent by, for example, the progressive widening of labour catchment areas as more pacels are able to travel farther to work, but nevertheless remains relevant to an assessment of the part played by manufacturing industry.

in the regional economy.

CHANGE AND

Lebour Local

DEVELOPMENT The historical background

180. The early insurficiaring history of the South Wood was sirred whelf concepted with the weekless sized while the weekless above development of all was been development of all was deciding instating, in learner, and in food insultration based on the Reports applications. At Brissel there was substantial growth of the South Control of the So

181. The Region's textile trade declined in the Industrial Revolution of the 18th and 19th centuries. While generally the Region did not experience the main impetus of the Revolution. there were some developments of note. The Neval Dockyard developed at Plymouth and ship repairing at Falmouth. Swindon was chosen by Brunel es one of the country's main railway engineering centres. In West Comwell, the growth of tis-mining led to a large engineering development at Cambome. 182. By the beginning of the 20th century the Region had nevertheless developed a consider. able volume of manufacturing industry, some, what dispersed geographically and with Bristol se the only really large centre. By 1923 manufeeturing employment in Bristol totalled some 46,000, of which the paper, tobacco and chocolate industries accounted for about half.

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Bristol's main industrial growth between the two world was we are industriant modulators in which employment linesteed from 3,000 in 120.7 These was also 120.00 in 120.7 The second of 1,000 in 120.7 The second world was for the product of the second world world was for Philipson and the second in 120.7 Th

183. Growth of manufecturing during and since the second world war has perticularly affected the Bristol-Severnside and North Gloucestershire sub-divisions, where there have been lorge developments especially in serospace and other branches of engineering mainly in Bristol but elso in Cheltenham, Gloucoster and other parts of Gloucestershire. Since the late 1950s, chemical and non-ferous metal production has also greatly expended on Severneide, Elegwhere in the Region, there has been considerable post-war development of industry in perts of Somerset (elegraft and components, electronics, footwear, pleetics); at Swindon (majely motor vehicle hodies and electrical and electronic angineering) under a London overspill egreement: at other pitoes in Wiltshire, notebly Melkshem and Chippenham: and at Poole in Dorset (mainly engineering). There has been significant post-wir development at Plymouth (especially in engineering, television, office equipment and factwear). Telecommunications and engineering have developed in the Torbey area, Smoo 1960 also, there have been some new dayslopments in West Comwell and engineering has

Growth and change in menufacturing employment

that the 1931 Census showed some 260,000 engaged in manufacturing in the Region 14:3 per cent of the Greet Britain figure); at the 1961 Consus this had risen to something over 370,000 (about 4.5 per cent). (The Cervas figures include employers and selfemployed as well as employees, but these are reletively small in menufacturing industry.) Manufacturing employment statistics show an almost continuous increese between 1954 and 1954. Although the rate of increase tended to level off in the letter of these years, both in 1954-80 and in 1960-64 regional manufecturing employment increased much faster than nationally.

185. In the decade 1963-63 (for which the most comparable figures are evadable), emplayment in engineering and electrical goods increased by 40 per cent, substantially above the netional rate, and accounted for half the total manufacturing growth in the decade. There was also substantial growth in food. drink and tobecoo; whicles; textiles (largely in the men-made fibres sector); clothing and footweer (meinly in footweer); and paper, printing and publishing. Textiles and clothing and footwear declined netionally in the same period. The only manufacturing industry group in the Region which declined significantly in manpower between 1963 and 1963 was shipbuilding end marine angineering, and nationally this industry declined even more. 185. Chepter 3 showed that the main changes

in the more recent period of 1960-64 were the large growth in the engineering end electrical goods industries and a substantial fall in vehicles. Reductions in employment in aircraft and locomotives and wappers more then outweighed a growth in motor vehicle bodies and components 187. The correlation of the large menu-

facturing units to industrial growth has varied considerably from Industry to Industry in recent years. Although hotwood 1960 and 1964 total manufacturing amployment in the Region incressed by some 17,000, employment in the lerge menufacturing establishments of 1980 (those employing 500 or more) decreased by something over 1,000. About 7,000 of the net employment increase between 1960 and 1964 was attributable to smeller establishments which moved into the Region during the period and about 13,000 to the smaller units already in the South West in 1960 end units which started from scretch in the Region.

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Movement of manufacturing industry

188. An analysis has been made of manufacturing companies setting up branches or transferring into end out of the Region and its sub-regions since the second world war. While there are limitations in the data, the engineers respects that the South West, in relation to its total manufacturing employment, morived rather a low proportion of moves from the rest of the country in the early post-war years in comparison with some other regions, but that the position has since become more favourable. The figures also suggest that the Region has been obvernion a considerable volume of inward movement, comparable for example to that chesinal by the Northern Region. The dosure rate of incoming units has been qu'te low in terms of employment end, it appears, in comparison with experience in the country

189. In 1945-65 at least 189 moves by menusecturing Industry into the Region have been identified. Of these, 55 were in 1945-81, 52 in 1952-59, and 81 in 1960-65, Of these moves 155 were still in operation in 1966. expounting for some 36,000 lobs (about 9 per cent of regional manufacturing employment in 1965). Of these 36,000 jobs in 1965. shout 10,000 were in 37 units established in 1945-51, 13,000 in 39 units in 1952-59, and 12,000 in 78 units in 1960-65. Of the net growth of some 17,000 in menufacturing employment in the Region between 1980-64, more than 14,000 net was in units which had moved into the Region post-war

190. Whether the number of units moving into the Region in 1960-65 and remaining permenently (after allowing for the inevitable proportion of closures to take place) will be larger then in the earlier periods cannot be judged at this steps. But the substantial increase in numbers of moves in this period auppeats this may be so. The increase can be eccounted for largely by the conferment of Development District status on part of the Region from 1960, Of the 81 moves in 1960-85, 28 were to Development Districts

191. Of the units which had moved into the Region since 1945, 34 had closed or ceesed manufacturing ectivity by 1956; but these employed about 4,700 et most so that, in terms of jobs, the affect of subsequent closure of incoming units has been small. The Region, then, seems to have provided a satisfactory new home or place for expansion for many firms since the war.

out of the Region (in terms of such imoves) for every three net jobs that came in. Of 84 recorded moves out in 1945-86, 17 were in 1985-89 and 16 were in 1980-86. By the end of 1986, 16 of these had closed or created membratering excludy; this remaining 38 units than employed some remaining 38 units than employed some for 1980-86, 10 of these had the 1980-86 and the Northern Region, blood 1,800 sech in Souther and the Northern Region, blood 1,800 sech in Southern Sou

and this South East.

19.8. In difficult to generative about the nature of locativity to the Region and the Institute of locativity to the Region and the Institute to be learned from post-war experience. A great visely of industry on mode one flounth in overy region. Moreover, mobild wagenarising industries are those most lifely to be ventureated in movement, especially if it is search of Isboom, it is logical, as the man industries just in the Insight on adjoins the compreted South East and Vitex Mildlands of the Insight of

the major proportion of the 189 units identified

as coming into the South West since the war.

This has been both the cause and the effect of the geowing technologistic content of or gloral industry. The industrial make-up of what his come in ead remained a snalpsed in Appandix 17. Cleaures of incoming units have formed no pattern of particular significance.

1994. Movement by monafacturing units within the Region (i.e. movement from one to another of the following basedly disfined areas;

North Gloucestershire-North Willshire; Savemside; the rest of Somestet and Willshire and the whole of Doeset; Devon end. Conwall) has been on a compressively small acide. At the end of 1985, there were only about 24 units in operation, employing some 7,800 people, which had made such branch or transfer moves.

Industrial building

195. The considerable posit-vez gains moored above from industry navely introduced were secured against a background of government control over industrial development is much of the Region. Also, in spite of this control, which has applied mainly to new botilding, a generally high level of industrial development, and the property of the control with the property of the control with the control

of building has been Increasing, rising from about 2 million as, ft. a year in 1986–98 to nearly 2-5 million sq. ft. a year in 1980–98. Completions have been about 5 per cent and 6 per cent respectively of the nestional total. This scale of nor manufacturing capacity is appreciably above the Region's present proportion of Bristin's immulraturing employment. Over 28,000 jobs are expected to nature from inclusivel building completions in 1980– 65 when these are fully manned Clerkvene 6 per cent and 7 per cent of the sactional total).

65 when these are fully manned (between 6 per cent and 7 per cent of the national total). 198. The Region's share of national industrial building has risen since 1958 when, on the one hand, development control become more strict in much of the Region and, on the other.

TABLE 25
Average annual area of industrial building completed per head of manufacturing labour force.

per nead of manufacturing labour force				
Ama	1984-67	1958-63	1960-66	
GREAT BRITAIN	93	84	46	
SOUTH WEST*	5-6	5-8	5-1	
South East	1	4-81	3-8	
Fest Anglie	}621		7-6‡	
W. Midlands	5-6	4-5	3.8	
E. Midlends	1462	4-62	3:4†	
Yorke & Humberside	1001	4-62	4-6	
North West	4-8	4-7	4-3	
Northern	8-4	8-4	9-6	
Scotland	5.4	5-8	5-6	
Walne	0.6	10-9	10-0	

"South West Region, esoluting Po Strelating Soles of Pesseborage execut treatment was accorded to parts of the South West, Generally, however, the South West maintained a good relative position throughout the 1980s and 1980s, as Table 25 ghows.

107 The division of new building in 1980-85 among regional industries was generally in accord with their share of the munufacturing lebour force. Of 14 2 million sq. ft. of factory specs completed in the period, engineering and electrical goods accounted for 3 · 5 million so, ft. (25 per cent), food, drink and tobacco for 2-2 million (16 per cent), and vehicles for 1-8 million (13 per cent). Clothing and footwear and shipbuilding were the main industrial croups whose industrial building was well

below their share of employment. 198. The Region's high per capits rate of industrial building applied almost throughout the range of industrial orders. Only in chemicals and shipbuilding was regional building per casite substantially below the national figure. in engineering and electrical goods, and food, drink and tobacco, the Region was substantially above systems, as it was also in the regionally important clothing and footwear group. in the yehicles group it was at about the retioned froum. Figures for these and some other industrial orders are given in Table 26.

Board of Trade factories

199. Factory building by the Government has been only a small part of the total amount of factory building in the Region, because the Development Area and former Development Districts have contained only a small proporton of the Region's menufacturing industry and of its patential menufacturing labour force. Eleven factories have been built by the Board

TARIF 26 Total area of industrial building completed per head of manufacturing labour force, 1960-65

Industrial Order	SOUTH WEST	GREAT BRITAIN
Engineering and		
	33	23
Vehicles	20	28
Food, skink and tobecom Proper, printings	36	29
	20	32
Clothing and footware Shipbuilding and	21	11
manne engineering	G	14
Timber, funyture	52	25

"South West Faglan, excluding Pools.

of Trade in the South West for lease or sale, covering 397,000 eg, ft, and now employing some 1,500. Four of these are in Plymouth, and seven in the perts of Cornwell and North Devon which are in the South-western Development Area, A further factory of 20,000 sq. ft. is being built in the Camborne-Redruth zees. (In the country as a whole, the Board of Trade own some 1.160 such factories covering shout 57 million so, ft. and employing some 250,000.)

SHR-REGIONAL MANUFACTURING INDUSTRY

200. Chapter 3 has shown that the proportion of manufacturing employment to total employment and the distribution among manufacturing industries very considerably among the subregions. The Northern sub-region has more than half its manufacturing employment in the metalusing Industries. The Central sub-region, excluding Pools, has only about one-third in those industries (Poole has a szzeable additional concentration, particularly in engineering and electrical goods and clothing and footwear and food and drink together are of equal importance to metal-using). Metal-using Industries account for more than half the Southern sub-region's manufacturing employment; shipbuilding and marine engineering (mainly the Plymouth Dockyard) is as important as the engineering and electrical goods group (in which the electrical side is relatively heavily represented). The Western sub-region has about half its menufacturing employment in metal-using, mainly mechanical engineering

Falmouth): food processing is the only other 201. As noted in Chapter 3, manufacturing employment trends have differed considerably among the sub-regions. Much the highest rate of manufacturing employment increase in 1980-64 occurred in the Southern sub-majors (10 per cent representing 5,500 workers). This was the result of rapid industrial growth et Plymouth, caused in large measure by its

and ship receiring (the latter particularly at

storificant manufacturing activity

Development District status in 1960-61. The other three sub-regions ell had some increase in manufacturing employment, but there was no increase in the West Comwell sub-division which contained most of the then Development Districts in Cornwall. Since 1984, trends in the Western sub-region have been more favourable and manufacturing jobs currently in prospect suggest that these trends may

202. As in the Region as a whole, employment in engineering and electrical goods increesed substantially in all sub-regions

continue.

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Distribution of units new to South West Region in 1945-65 and still operational at end-1965

Anse	New units No.	1565 employment in new units No	Proportion of 1988 mare/facturing employment employed as new units
SOUTH WEST	155	35,700	,
Hordvore Central Southern Wastern	51 36 31 27	17,400 6,000 11,200 1,100	7 8 19 6

between 1980 and 1984. The degrees in controlled in the whiches grow was most procusioned in the Nections also-spon (controlled in the Nection also-spon (controlled in the Nection and State of the Nection and State of S

Plymouth eres 203. Table 27 shows the distribution among the sub-regions of 1965 employment in many. facturing units new to the Region since the second world war. The Table reveals the moortant share of these units secured by the Southern sub-region (mainly the Plymouth Aree sub-division) and the small everage size of the units in the Western sub-region. Mayor into Development Districts, or into places which had been Davelopment Districts at the time industrial development partificates were obtained numbered 28 (12 in the Southern sub-region and 16 in the Western sub-region of which one closed leter) and the units concarned employed some 3,300 in 1966 (2,800 in the Southern and 500 in the Western subregions), about 9 per cent of the total for the Recion. The Western sub-region benefited as much from inward moves from the rest of the Region as from quaside.

20.4. Of the not growth in 1500-04 of year.

1,000 jobs in units which had moved into
the Registo post-war, more then had week in
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to the Regis

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largely limited to firms in the Northern and Control sub-regions. 205. In the Northern, Control and Southern

sub-regions, between 60 per cost and 75 per cost of the 1980 employment in units which had envised this de Bisjoin protevar was behalf the sub-region of the 1980 per portion of the whilete groups; visibles (Presed Stock-Fisher LLI) were perticularly important in the version sub-region, and markines and hardware sub-regions, and markines are recently immediately as a second of the protection of the control of the control perticular sub-regions. In the Western subregion, a number of industries correlation, region, a complete and this way.

206. Appendix 18 shows the distribution

within the Region of industriel building completions in 1960-68. The Northern sub-motors had 55 per cent of the Region's everage ennual industrial building completions of some 2.5 million square feet in 1960-66. and 45 per cost of the expected even late. These were merkedly lower proportions than its 64 per cent of regional menufecturing employment. It is in the Northern sub-region (except for Swindon oversoll developments) that government control over industrial development has been strictest. The other three sub-regions all did relatively somewhat better in serms of additional floor apage. In terms of expected extra jobs, however, the Centrel sub-region (and particularly the Wellinoton-Weethern exh-districe whose month fecturing lobour force has fallen in recent years) had a low ratio while the Couthern and to a leaser extent the Wooten authorities hed high ratios, reflecting the Development District status of parts of these sub-regions for some or all of the period. Expected extre jobs in the Western sub-esgion were, however,

7 The Holiday Trades

PART III THE REGION'S ECONOMY

207. The South West, with its 20 per comthere of the British holdery smitst, it journiably period of its leoding position in British's holdery smit. The rootse serving the holderyholdery smit. The rootse serving the holderyloop of the rootse serving the holderyloop of the rootse serving the holderyloop of the rootse serving the holder loop of the rootse serving the rootse serving supplies with british consent sand to a leaser extent the Somerast and Dorest coers, coughts with british control to consent serving serving supplies with the rootse serving the rootse serving serving serving the rootse serving serving

billiogranises in these parts of the Region in 1964.
2018. Riscinelly and regionally there is title comprehenses withhelical data board the hold-ge sector—this carput, chenges in the particular of channel and supply, its limpect not other sectors of the economy. A good deal of which were the comprehenses of the economy. A good deal of which sectors of the economy. A good deal of which sectors of the economy of the particularly valued to the South West holding the economy of the particularly valued to the South West holding the economy of the particular of the part

Fig. 17 Heliday Areas: Devon, Commettl and Semerset Coest.
As defined by the county councils with estimated pask haliday population in 1984 (Semerset, 1985).



the Region.

Economic importance

209. The British Travel Association has estimated that British holidaymakers visiting the Barrion in 1985 errent a total of 195 million, besides travel costs. This floure includes expenditure by visitors on goods and services not produced in the Region. It is not possible to say precisely what the net output of the molecul holiday trades was or its proportion of the Region's net output of goods and services, but it is unlikely to have been more than about one-twentieth. The British Trivel Association also estimates that holiday expenditure, excluding travel, in Cornwall and Devon in 1985 was about £65 million, roughly equivalent to the manufacturing output of the two countries together.

210. Appendix 19 suggests that the South West has secured a fay shere of the large increase in British holidays in the post-war period including second holidays, etc. Main holidays in the Region, excluding Dorset, rose from about 3 million to 4 million during the 1850s, and increased further in the 1950s to about 5 million. Compared with the general trand of holidays within British, the South Wast gained more than other regions up the early 1950s, but its connection since then has remained steadler. Individual parts of the Region may have experienced different trends. 211. The little information available about numbers and expenditure of overseas visitors points to the South West's share being small: in the summer of 1966, the South West

stiracted only 2) per cent of those oversees visitors to Britain who strend only in one place. a category of visitor accounting for nearly three-quarters of all visits to Britein from OVECTORS.

Accommodation facilities 212. The mejority of holiday visitors to the South West still take traditional holidays-in hotels and boarding houses and fermhouses: many also seay with friends and reletives. But a rising proportion of visitors arrive by one and use their cars to travel around, often attacked at a number of places in the course of their holiday. This practice has encouraged the growth of camping and caravan sites and of country bed and breakfast places often situated away from rail heads. Nearly one-third of use of the newer forms of accommodation represented by camping, carevans, rented villes and flats. New investment in holiday accommodation sends to be in party of the coast away from the early established centres which were mainly based on rail communications. The types of accommodation which have increased most in the last few years, i.a. torns, chalets and convens, are

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offered increasing competition to the mantraditional accommodation, especially to the large number of boarding houses. Labour

213. The holiday trades cover a wide range of

activities and it is difficult to define their employment accurately. In 1965, there was about 51,000 employed in hotels and categori in the Region, excluding Pools, of whom about 29,000 were in the Southern and Western sub-regions, which cover the major holiday areas. In addition, probably about 15,000 self-employed people are engaged in hotels and catering in the South West. While not all of the hotel and catering trades are engaged in the holiday business, a various of other trades, for example, distribution, ere to some extent. A report by Conswall County Council has estimated that, basides some 6.700 people in catering, hotels, etc., in the course serving holidaymakers, more than 7,000 people in other trades are so engaged.

214. It seems that labour supply has not generally been a sedously inhibiture factor in the prowth of the holiday trades in the Region. The introduction of manufacturing employmore in the holiday seems has not so for and ously affected the supply of labour to the catering industry. The assented nature of truth of the work offered by the holiday trades does not seem to have been a serious deterrent to recruitment. New sources of labour have become available. Immigrant workers, meinly young and untrained people, have come for experience or for a working holiday. The large growth in the national student population has provided some lebour in the summer months. More married women have come into employment. Moreover, the development of tourism ennesembed by the growth in numbers of cormone chalate etc. has been in incom measure in labour-randon descripts Newstheless at the helpts of the season than brus been local shortenes of skilleri and experienced workers. The Selective Employment Tex is likely to encourage a trend towards maximum economy in all forms of labour (for example by more self-service) and, if government policy in the Development Area succeeds in substantielly increasing manufacturing activity, better use will need to be made of the labour sysilable to the holiday trades and a courser realigation of the hanefite of training

215. A number of colleges of further education in the Region, perticularly in the man tourist areas, have for a number of years paid considerable attention to training in the hotel and catering industry. Facilities provided rance from day release classes for waiters end other

service staff to three-year full-time courses for the National Diploma in Hotel Keeping and those most associated with the car, and have Caterino. In order to encourage employers to give better training to their employees, the level and Cettring Institute, supported by the strictly of Labour, established in November 1955 a training development committee and appointed a treining development officer for the South West to faster training throughout the Regron. This committee's work is a useful golded to the activities of the Hotel and Copering Training Board which was established in 1966, and which should eventually lead to turber improvement in both the quantity and quality of training provided by the industry in

Finance

216. Only limited information is available about the provision of finance for the hotel and cetaring trades end about their profitability, but these trades have expressed strong exposition to the Government's fiscal policies. Two recent taxation measures will tend to impair the profitability of hotels and other cataring establishments to the extent that the cost of the measures may not be fully recouped by increases in charges or reduction in services. First, the Selective Employment Tax is levied on the hotel and catering trades, as on service tracks cenerally, without refund, Secondly, the Inclustrial Development Act 1966 has resistant the former investment allowances for plant, which were applicable to new equipment in the hotel and catering trades. It is true that initial taxation alloweness which do apply to the service trades have been increased substartfelly in respect of new plent and machinary: but these trades do not quality for the investment ments which have replaced the

investment allowences for menufacturing industry.

on belance adverse to the holiday trades, are taking place at a time when the holiday facilities in the Region need substantial adaptation and expenditure to meet changes in the pattern of demand and to attract more overseas visitors. On the other hand, loons and special grants under the Local Employment Acts continue to be available in the wider South-western Development Area, poversion North Devon and most of Comwell, as do building grants. An experimental scheme of loan assistance for portly defraying the cost of selected hotel dovelopment projects started after July 1966 has also been introduced by the Board of Trade to run throughout 1957 with a total loan commitment of up to £6 million. These loans will be available throughout Great Britain, but only for developments which are likely to result in significant new or increased earnings from oversees visitors staying at the hotels, so that unless the Region can greatly increase its oversess tourist trade only limited benefits can be expected from this scheme.

Transport facilities 218. An important factor in the growth of

tourist services in the Region, as elsowhere, is the availability of attractive transport facilities and adequate provision for circulatory transport in the holiday areas, More simply, them needs to be provision for a safe, comfortable and speedy journey. Since the second world war, during a period of encompus growth of peld holidays, holiday travel has tended to grow whatever the transport facilities. This impetus has now expended itself and in future, competition for holidaymakers will be more intense, with the amactiveness of journey facilities a key fector. It is for this resson that the holiday trades are particularly concerned about the amount of congestion on merry of the made to and within the boliday areas of the Region.

219. Railway facilities in the Region have been reduced in recent years. A number of rail links to holiday towns have been closed. including those serving Lyme Regis in Donet: Seaton, Sidmouth and Budition Salterton in East Oavon; Clevedon in Somerset; and Bude and other North Correctl resorts. Against this the sesside branch lines to St. Ives and Loos which were threatened with closure are now to be retained, and British Ballways have made improvements in main line services and motoriil facilities

220. Air travel to the South West has not so far been a mojor factor in the holiday transport pattern. At the two airports used by holidaymakers to Davon and Cornwall, at Exeter and RAF St. Mawaan, the boliday traffic is fairly small and a good deal of it is transit treffic. for example, to the Channel Islands, While more holidaymakers may come to the Ragion 217. These changes in taxetion arrangements, by air in the future, any marked increase in this form of travel seems unlikely, at least by

Seitish holidaymoirnes

221. Some valuable information about holiday transport in Devon and Cornwell has emerged from a study carried out by the University of Exette in 1968 at the request of the Ministry of Transport in consultation with the Council. The study brings out four main features of the holiday transport pattern in these counties. First, it notes the overwhelming emphasis on the private car, now used by 80 per cent of visitors. The proportion of visitors travelling by car man mobile may the 1950s, but seems to have been fairly stable aince about 1960. The proportion is higher than in any other region, probably because of the suitability of the area for holidays in which the car plays an integral pert, but also because the cer has advantages of convenience and low marginal cost, particutarly for larger parties. Secondly, rail travel is now used by only 10 per cent of visitors on everson and the study supposts that withdrawal of the railway services to some resorts has not so far significantly reduced the numbers visiting them: the loss of freight and commuter fecilities for the holiday assablishments has probably been more serious than the loss of holidey custom. On the other hand, in the larger resorts the proportion arriving by train is probably well above the average of 10 per cent for the two counties, end here too the rellway brings in essantial supplies and workers as well as holidaymakers. Thirdly, the study expresses the view that the small importance of eir travel to Davon and Conswall mey be mainly because it offers little time advantage at present to offset the higher costs involved. Finally, the study notes that the marked midseeson and Saturday peaks affect all forms of travel but present particular difficulty for the radways, since couching stock is inflexible between uses. Car travel is probably not quite as concentrated on Saturdays as public

transport, but it is well known that have consession corum 222. The study sigh amphasings the constitut problems of circulation of holiday traffic on the many narrow made in the holiday areas in the two courties, and the increased amount of this treffic on the efficient planning of land use. It suggests that there should be scope for development on the lines of the Devon County Council's County Plan by Identifying coestal ereas for the travaller for use in different ways. for example, as resorts, popular baselyss. nactuded beaches without facilities and so on. Such a policy implies an information service to enable motorists to know where they are most likely to find the things they are seeking. 223. The conclusion supposted by the stury is that at least in the middle term, road traffic problems are likely to remain the core of the tourist trade's transport problem in the South West, and that neither rail nor eir facilities are Rosly to play a significantly larger part in solving these problems. But there is some evidence that holiday visitors to Corrival from the industrial North and Midlands are prepared to meet a modest premium on air fares to

evoid e tedious journey by road or reit. Organisation and publicity

224. The South West tourist services, se in the rest off Seinic, participate in this national organisations of the tourist industry, instituting the government-supported British Threel Association. The Association has been recounting the formation of seginal tourist association, sed the South West Traval Association was established in 1965, covering Corread, Devone. Dosest and Somessat and teoching fileaced apport from those looks although some shape of the Proposition of the Proposi

bacome mambers. Its aims are to promose travel to the South West from other parts of British and from obroad; to encourage the development of road, sall, air and sea services and of accommodation and amenitatis; and other and of accommodation and amenitatis; and other and of accommodation are reconstituted to the second of the second of

225. Overmos publicity for bit towiet foats in the South West is comind out by the Bosini Time! Association in conjunction with the South West Tawal Association. Publicity at South West Tawal Association, Publicity at home is done for the South West party, by the home is done for the South West party by the home is done for the South West party by the concern. Publicity is at present minky decread to premiting inflowled principles within the South West as a helidary region. West as a helidary region will be southern than the South West as a helidary region and the south West as a helidary region. The south West as a helidary region are virgin as on-cridinate that effects of the present among unfilled pitching of the topical present among unfill pitching or the topical present among unified pitching of the topical present among unified pitching and unified pitching among unified pitching and unified pitchi

potentiality of the area.

226. Some important studies of the holiday tredes have been initieted controlly and regionally. The general economic aspects of the holiday trades in Cornwall and Davon are being investigated by the University of Exetor in a two-year study which the Council have sportsored and which is financed by the Government. The study will seek resentially to clarify the aconomic effects of the holiday trades in the two main holiday counties. A detailed accommodation and occupancy survey is being undertaken by Miles-Kolosy Ltd. for the British Travel Association, which is ecting in co-operation with the South West Travel Association. This sturb, which will cover Cornwall, Devon, Dorset and Correspond show in detail where there are serious differences between appointedstion supply and demand, as a quide to future sotion on investment and publicity. On the important question of the future demand for holidays in Britain, the British Travel Association is engaged in a continuous programme of research in countries throughout the world to determine the attraction and popularity of Britsin and its component regions, it is also undertaking research into ettitudes of British holidaymakers and into the development problems of particular resorts, Information complementing that obtained from these studies for the British Travel Association will be provided by a study of the demand and supply aspects of holidays in Britain by over-

seas visitors which is being undertaken by the

Economic Davelopment Committee for the

Hotel and Catering Industry.

8 Office Activities

PART III
THE
REGION'S
ECONOMY

227. Offices are not a distinctive and medity identifiable sector of the economy in the same way that, for instance, manufacturing isledged, they are often an integral part of autablishments primarily appared in other activities such as manufacturing or distribution. Nevertholess, offices share sufficiently common characteristics of potential importance to the South West-a fast rate of employment growth, a high proportion of female workers-to deserve consideration separately from the other major sectors of the economy. This chepter concentrates on the role of what may be described as 'detached' offices, i.e. those which do not require to be closely lanked to non-office activities and whose contribution to the economy in which they are located can therefore to some extent be considered independently.

228. Much the grandest part of employment in distiptived offices, at least outside Central Leading, lie nuch service industries as public administration, Insurance, besiding and finance and some types of professional and assentific services. Table 28 shows that the South West is relatively well endowed with these office industries mainly because of the leans cumber.

of national government employees, chiefly in the Ministry of Defence. On the other hand, largely as a result of the small size of the Region's manufacturing sector, there is a noticeable lack of employment in the office nocupations elsewhere, i.e. in industry at leron. According to the 1961 Census, employment (including the self-employed) in office Industries amounted to about 66 per cent of total amployment in office occupations in the South West, compared with lust under 50 per cent nationally. As a result, the proportion of employment in all office occupations in the Region was distinctly lower than nationally (18 per cent compared with 18% per cent). This difference clearly has some relevance to the high proportion of clarical workers among the unemployed which was noted in Chapter 3.

229. In the country as a whole the office industries are one of the most rapidly growing groups of industries and there have been no signs as yet that the growing automation of office jobs is likely to check the present reseable fluore. In recent yeers, this growth has been particularly marked in the South West

TABLE 28

Employment in the office industries, 1965*

Employmen	Brodoyment in Greet Date(n	
'000	% of total employment	% of total employment
27/7	24	2:7
24-6 56-8 50-41	1-8 7-8	19 56 24
	900 27/7 24-6	27/7 24 246 1-9 568 7-8

(see Table 29) and has accounted for about a quarter of the total increase in employment in the Region. Within the group, the private sector has been primarily menoasible for the first rate of expension, elthough the largest absolute gains have occurred in public

Distribution within the region 230. In honed terms, ampleyment in the office

industries within the Region is distributed in much the same proportion as total employment, though with rather higher proportions in the Central and Southern sub-regions and rather lower proportions in the North Wiltshire and West Comwell sub-divisions. The proportion of workers engaged in all office occupations, however, tends to fall off quite sharply from east to west in the Region (see Appendix 20). Opportunities for office employment outside the office industries therefore seem considerably less in the acuth and west then in the north and east of the Region, in line with the amatier proportion of employment in manufacturing in the south and west

231. Offices are, however, usually located in towns--and to a lense extent in town centres-and the largest office centres send to be in the largost towns. Differences in the importance of the office industries to the vanous sub-divisions of the Region ere primortly a reflection of the role and distribution of the larger towns. The two towns which serve a major regional function as office carries ere Bristol and Exeter. Bristol is the fifth largest office centre outside London, and the beam in office building in recent years has made it the fostest growing of the provincial centres. Exetter is notable both as one of the smallest major office centres in England and Walss and as one of the most distant from London. The other towns in the Region where the office sector (even excluding local authority offices) tends to be most important are the edministra-

tive county towns-Truro, Trowbridge, Dov. chester. Teumon and Gloucester-and Bath where the Ministry of Defence is the main employer. Plymouth on the other hand has a notably emailer office sector than its vine would lead one to expect and is perticularly dependent upon employment in government offices, which offer less prospects of growth than does the private sector. The concentration of 'decached' offices in the private sector in the biocer towns is exhibited most markedly by a glonce at the largest establishments (i.e. those employing 80 or more), Throsquarters of these were national or local opvenment offices, and these were spread quite widely throughout the Region. The private offices, however, were propondarantly situated in towns of more than E0,000 population-half of thom in Bristol, Despite the assertment regional offices in Bristol and the Ministry of Defence at Bath almost 50 per pant of the employment in office industries in the Bristol-Severnaide sub-division derived from private offices. 232. During the period 1960-64, the rate of

growth of employment in both office innustries as e whole and in each of the main industries in the group was fastest in the Northern sub-region and slowest in the Wostern sub-moion. There were nice morked differences at the sub-divisional level; much the fastest growth was in North Gloucestershire—because of a big increase in employment in public administration-and the slowest in West Corrwell; growth in Wellington-Westbury and Bodesin-Exmoor was also well below the regional rots.

Female employment

233. Office jobs are a major employer of female labour both nationally and regionally. /In 1961, 26 ner cent of the famile working nonvisting had office occupations in the South West compared with only 12 per cent of

TABLE 29 Average annual employment growth. 1959-63 and 1964-65

Growth in South West 1000	Rate of growth. In South West %	Rate of growth in Great Britain %
+20-1	+19	+1
+47	+35	+25
+1-2	+6	+3)
+1-3	+8	+35
+2-2	+2)	+2
	South West 1000 +201 +47 +1-2 +1-3	Setch West in South West 1000 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

males: see Appendix 20.) The future development of offices in the Risgon II therefore a meter of condected importance in relation to the passibilities of estairs, furnise advantage to the control of the theory who excell not consider factory jobs. The appendix of farmely workers is somewhat loave in the office industries above them in all office, comprehense, leavely browne guildic administration tends to employ more moles than other office jobs. (This factor also probably helps to explain the natively lowproportion of hemates to make its critical poliproportion of hemates to make its critical poliproportion of hemates to make its critical Newtheloos, female employment in the office industries in the Rogion has been growing twice as facts to soil famile employment and accounted for elimost 20 per cent of the total increase in the princial quotate in Table 29.

9 Ports and Communications

PART III THE REGION'S ECONOMY (contd)

> 234. The special significance of ports and they enable it to work. In the case of ports: at the minimum, part of a region's economy may mly upon the ressence and efficiency of ports and shipping services for the delivery of metarials and the despetch of products; at the maximum, they may in themselves be a mejor economic activity and a prime factor in determining the location, character and acate of industrial development. In the case of communications; mad, rell and air tenounce are the means by which people and goods move, postel and telecommunications services are the means by which information is transmitted: without these, a community is out off from the complex interchanges which make possible on advanced, and advancing, eco-

Ports and shipping services
23. The Port of British hardes about 8 million toss of goods traffic o year, about 3 million toss of goods traffic o year, about 3 million toss of goods traffic o year, about 3 million toss of year of the British of year of the State of

238. The Port of Bristol consists of three process of docks. The City Ducks were processed in the only fish century and consequently the control of the cont

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million, and with ultimate expansion possible up to 40 or more new berths. The National Ports Council in May 1966 recommended the the Portbury scheme should on forward as meeting a national need for a third moor classsee liner terminal and Stage I of the scheme was included in the Council's Interim Plen for Part Development published in July 1985. In Arty 1966, the scheme was rejected by the Green. ment on the scores that Bristol had not a lerge enough hinterland in terms of industry and population for such a port to be viable and that, with the 'container revolution' under were the case for a new major liner transpal had not been made out." The Government invited the National Ports Council to consider after-Port of Bristol, and the Port of Bristol Authority. in consultation with the National Ports Councit, has commissioned studies and is preparing a more modest port expansion schome.

237. The Region also has many smaller ports. Appendix 21 gives traffic figures for the 20 largest of these, which in 1986 headled some seven million tons of goods, simpet as much es the Port of Bristol itself. The main traffic of these smaller ports at present is in imports of fuel for use within the immediate hiranproduped materials, such as also and stone. The triffic through Plymouth, Poole, Falmouth and Bridgwater is predominently imports of fuel, mainly petrolisum products, by coastal shipping: Par. Fowey and Telonmouth hardin mainly clay exports which on sett to all parts of the world: Newlyn's trade is the cutward movement of locally produced stone by constal pervious. As in other parts of the country, increased retionalisation of distribution services by inland transport has resulted in a progressive declina in opastal liner shipping services to the ports of the South West. They are now mainly limited to bulk campes, notably cool and oil,

*Temporat Pelico, Creat 3057, paragraphs 100-106, HMSO15 Ser sino: Wilships of Transport, Paragraph Research for 64-88 Service Wilships and for explanation for the 88-85 238. The shipping service between St. Mary's and Penzance is the Isles of Scilly's main link with the mainland. This service is maintained by the Isles of Scilly Steemship Company, The Company also maintains motor launch services between St. Mary's and the offwheels: it has expressed concern about the cost of continuing to maintain these services.

Land transport

239. Unlike the comidor regions, the South West derives little advantage from national road and rail through routes. It is true that Bristol benefits from the main road and rail routes between London and South Wales, but the centres in the south and wast of the Region, including Plymouth, have no motorway link with the rest of the country. The existing rand nattern is one which has evolved to serve a primarily agricultural community with a multitude of small market towns. The railway system too was developed to meet a similar need at a time when the horse was its only rival, and to bring holidaymakers into the Region, it is now losing more and more of its share of freight and passengers to road transport, thereby adding to the congestion on the roads, particularly in holiday months.

240. In the rural areas of the South West, as elsawhere in the country, the problem of maintaining public passenger transport services has become increasingly difficult. As more people turn to private pare, fower pand to use public transport and rural bus and train strvices become unaconomic to run. This is especially so on the branch lines of the railways where the number of people using them even at holiday times is quita insufficient to make them pey.

Roads

241. The trunk road system in the Region, which is the responsibility of the Minister of Transport, is shown on the General Reference Mep No. 1 in the pocket. The total trunk road mileage, including motorways, is some 850 miles, about 10 per cent of the total trunk road mileage in Great Britain. The traffic flow disgram at Figure 18 shows that the route with the happiest traffic density is the A38 running from Tewkesbury in the axtreme north of the Rasion to beyond Plymouth in the south west. Most of the large towns in the Region lie on or neer this route which, with the new Tamer

Bridge, now provides a link from Phymouth to East Corresull and thence via Bodmin and the A30 to Panzence. 242. The remaining trunk routes (with the exception of the A39/A351/A358 route serving North Comwell and Devon and thence to

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Taunton) radiate from or near Gloucester, Bristol and Exetor, viz.:

from Gloucester

A40 (Ross - Glouosater - Cheltenham -Northleach and thence to Oxford and A48 (Gloucester - Chepetow and South

Wates) A417 (Gloucester - Cirencester - Hungerford and thence to London vis A4) from Bristol and Bath

A4 (Bristol - Bath - Hungerford and thence

A36 (Beth-Salisbury and Southempton) A46/A435 (Bath - Stroud - Cheltenham and thence to Evasham) from Exerci and Honton A30/A303 (Penzence - Bodmin - Launca-

ston - Exeter - Honiton - Hohester -Amesbury and thence to London's A35/A31 (Honton - Axminster - Dorchester-Wimborns and thenca to Southamoton).

The A38 mute which extends northwards to Rirmingham and beyond provides the Region's link with the Midlands and the North, and, via the Severn Bridge, with South Wales. The A40 A4 and A30/A303 routes are the main links with London and the South East.

243. The great bulk of the present trunk road system in the Region consists of single twolane carriagaways which, perticularly in the south and west, are of sub-standard width and alignment. In general, these roads are carrying volumes of treffic at peak times much beyond ther capacity, conditions being very bad at meny points, especially in the summer months when large volumes of holiday traffic ere circulating. This congestion is not only frustrating for the holiday troffic itself, but binders the normal commercial traffic in the Region. Floure 18 illustrates the traffic flow on an everage day in August 1961 (the Saturday flow would be substantially in excess of this). The flow is palculated in terms of 'passanger car units', on the basis that one private car or light lony equals one passenger car unit and that one happy forry, but or coach equals

three passenger car units. Other roeds

244. Of the remaining roads, for which county and local highway authorities are responsible. the Minimer has recently designated a naw class of principal roads, which broadly consists of the former non-trunk Class I system, These in future will be the only non-trunk roads attracting direct grant from the Ministry, but contributions to works on non-principal roads will be made through the rate support grant. Most of the large schemes programmed on principal roads in recent years have been in or near the urban areas, in the form of relief

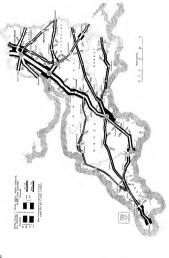


Fig. 18 Trunk Beeds: Density of Traffic. F.C.U.s bessed on 1961 traffic census for avers

improvements.

Railways 245. The principal reliway lines linking the Region with London are the Paddington-Newhury - Taunton - Exeter - Penzence line, the Waredoo-Salisbury-Yeavil-Exeter line, and the Paddington-Didgot-Swindon-Bristol line. The frut of these lines provides the express passenner services to Devon and Comwell. The men number of the second line is now to serve east Devon, Wiltshire and Dorset: British Ball have over the past year pursued a policy of withdrawing some of the stopping passenger services and so enabling the provision of exert-fast services calling only at the more important places. With the operation of their Southern Region electrification scheme this year British Rail plan to speed up the present services even more. The third line provides fast services between the north and east of the Region and London, A rall link with the Midlends and the North Is provided by the Barmingham-Bristol-Exeter-Penzance fine.

roads, by-passes and large-scale junction

246. The more important of the cross country nall services within the Region are those between Exister and Okahempton and Bernstaple, between Bristol, Yeovil and Weymouth, and between Bristol and Salisbury and thance to Southernation.

247 Even before the Reaching Report in 1953, * some railway necessaries services within the Region had been withdrawn and others which had become little used and were losing money were under review. The Report proposed the withdrawal of many more such services, British Rail are required to give public notice of any proposal to withdraw pessenger services on any line and if objections are lodged on behalf of users the Transport Users' Consultative Committee report to the Minister of Transport on the hardship implications of the proposal if env. The Minister then decides whether or not to consent to the proposal. Since the setting up of the regional economic planning councils in 1964, the Minister has consulted the councils about all passenger services withdrawal proposels in their majons. In the South West Region, the Council have been consulted about 31 proposals, and have expressed views to the Minister about the effect of each proposel on regional aconomic development. The Council heve welcomed the Minister's recent decisions to refuse consent to the withdrawal of passonger services between Liskeard and Loop 24B. This lengely piecement eporogon is now to be superseded by the new policy for the railways outlined in the Government's White Paper on Transport Policy Issued in July 1968 (Cmnd. 3067). The White Paper explained then. in order to restore stability to the industry. the general shape and size of the future milway system must be determined at an early date. The besic system should include, besides a network of main trunk routes linking the main population and industrial centres and secondary ings feeding the trunk network, some socially necessary services even though thay are not remunerative or likely to become remunerative in a commercial sense, for example, commuter services in conurbations and services to remote creas. The Government Insand to assume responsibility for lesses on unremunerative services which are retained for social reasons. 249. Details were published in March 1967 of the size and shape of the reilways network which the Minister and the Rellways Board have now decided should be retained and developed as the basic network for the country. The network definitely to be retained in the South West Region is shown in the General Reference Man No. 1 in the pocket, it includes the main Paddington-Exeter-Plymouth line right down to Penzance on strictly commercial neignining this line would have storned at Plymouth. Other commercially unremunerative lines to be retained as 'socially necessary' include the St. Ives-St. Erth and Liskeard-Loos

branch lines mentioned in peragraph 247 and also the Exeter-Okehampton. Bester-Barnstaple and Cestic Cary-Dorchester lines. 250. This new basic network leaves the future of the following existing pessenger branch lines still be in disided:

Barnstaple-Titracombe Taunton-Minehead Malden Newton-Bridport Bristol-Severn Beach

Par-Newquay Truro-Falmouth Cheltenham-Stratford-on-Avon

Exeter-Exmouth
Paignton-Kingswear
Wareham-Swaneos

The withdrawel of services on any of these lines will continue to be subject to the consent of the Minister who will take account of advice from the Transport Users' Consultative Commit-

from the Transport Users' Consultative Committee and the Council.

251. The Minister of Transport also announced in 1956 a new policy for the disposal of

redundant assets on closed railway lines. British Rail continue to seek the Minister's consent to disposal of the land on which the teck is built, bridges and station sites and acossess, and the regional aconomic planning

councils advise the Minister on the implications for plenning of such disposal, British Ball are,

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however, now free to dispose of the track uself, signalling apparetus and station buildings aince these deteriorate and are liable to vendulism.

222. Winderward of railway religible services is a matter for Birth Rail above, without reference to the Minister. In accordance with this instancial policy, finals Rail are concentrating tradget earlier for the Region on a much smaller matter of strikes from provident, such serving a larger road field zero. This more self-control of the service of

Passenger transport services by road

253. Almora all the bus services northol Bridgiventer and Statistury are provided by the British Group of deemparies which is controlled by the Transport Holding Company red is thus part of the 'necloralised' sector of the country's each passings' transport fluidately. An exception is Swindow where services in the centre of the country and Swindow where services in the centre of the British Companies. The centre of the British Companies with the Gloscotter the British Companies with several placets where the companies with the Chapesters where the companies with the Chapesters where the companies with several placets where the companies with the companies where the companies where the companies where the companies with the companies where the companies with the companies where the companie

284. Bus services in the mein urban asson in the mast of the Region are provided by the Weetern Netronal and Southern National Compraints, and by the Wills and Oseast Cempany, which are also controlled by the Transport Hodding Company, and by the sepsess Devon General Company, in Busine and Primouth the major provides an either corporation who purpose to make progression who provides to make progression with the provides of the control of the progression of provides to make progression with the provides of the progression of the provides of the progression of provides associated by Weetern National Companies researching.

255. The main network of long-distance coach structes within the Region is provided by operating partnerships of the Bristol Group and the Southern National and Western National Companies.

286. Most of the base not occent autoris in the Region in the supersetted by comprehe under Transcert Heiding Compress, consequently as identified the Compress of most of self-region and control and control produced the services. Meetingen for the coconstruction of but and coche purpose with services has been established by vary of stratiing just commission of presentatives and or the ment but and costs of control services. As mention of the control of the control produced to the control of the control produced to the control of the control produced to the control of the control for the South Yest, Ragion his recently been set up by the Minister of Timpsoch to set.

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better co-ordination of passenger transport services. This committee is chained by a member of the Council, and the Council will be kept informed of the progress made by the committee.

237. The problems facing bus operation is the Region are common to all regions. Resing care, and, bossiss of the private care, a continualisting off in dismand for subtlic transport has led to more and more services becoming unemorarestive. For more bosses and ones are neared to meet the demand at microry and covering presels there more bus used not ones are neared to meet the demand at microry and exchange to the control of the control of the schooling between the business of other street schooling between the control of the consistency of the control of the consistency of the control of

Inland waterways

228. The South West Region is one of the formation in which Inland waterways are still present in fields transport. Two of the first waterways in the Region controlled by the Brick Inland Waterways Board Logother. Two of the first Waterways Board Logother. Form a visible treesport before a visible present to the first water and the part of which the which the Region and the part of which the which the Region and of which the Brick Inland within the Region to the Waterways which was the best of Channel to the Middlinds; the walful handled is running at about three-quarters of emillion tone a year.

Air services

230. The development of all centroes, especially especially especially especially halful in a region such as the South West in serving the heads of satisfic industry, estimated preventions of the central provision of the

260. The Region is served by the domestic and international services operated from the municipal airports at Bristol (Luisqute), Gloucester (Staverton) and Exeter, and from Southempton and Roumemouth (Hum), Just outside the Region. There are also regular civil flights, at present only in the summer, from the owll terminal at RAF St. Mawgen, near Newquey, BEA operate a belicopter service between the Isles of Soilly and Penzance haliport. A few pir services operate from the smell sirfield at Roborough, Plymouth, April from these, there are a number of military percdromes within the Region which may be used. with prior permission, by clyl aircraft, mostly private and executive algorate, and also a few privately owned small licensed airfields.

Postal and telecommunications services

281. The General Post Office is planning conextensive modernisation of postal facilities showshout the Region and at Bristol has energy a large rebuilding operation for the installation of modern electronic sorting and handling equipment for letter and percel traffic to come with the needs of the public and industry in the 1970s. The Post Office is also planning considerable extension and development of telecommunications services in the Region to most the ever-increasing use being made of the service by the increasing population and excending Industry, Subscriber Trunk Dielling is already available to more then half the subspribers and is expected to be available throughout the Region very early in the 1970s. The Post Office in the South West is participating in the general introduction of computes, electrone telephone equipment, and datal transmission equipment throughout the country, ell of which will contribute to the extension of the communications, facilities, expellable.

commandations included provide commandations and provide for continuing growth, about 15th million per annum on portal services and 12th million per annum on portal services and 12th million per annum on the decommandations which is continued to a service of the services of 12th million or so per enrum in committee that 15th million or so per enrum in committee with continue to siccosing, and by 17th 15th supported on the services of 15th million or so per enrum in services of 15th million or per services and 12th million or past for ormal bold.

10 Energy Supplies

DART III THE REGION'S ECONOMY (nontrid)

> 263. The South West has one of the Invest demends for energy of eny region in the United Kingdom, its energy consumption in 1865 was sumption, in contrast with its 6-6 per cent share of United Kingdom population and 5-6 per cent share of United Kingdom employment. This is not surprising in view of the seletively high rural content of the regional economy and the saletively amail manufacturing sector. The mild climate of the Region must also be a factor. Table 30 shows the consumption of the

> different funde 264. In line with the crowth of population and industrial activity, regional energy consumption has been increasing-by about 12 per cent during the last five years or so. The biggest rise in consumption of primary fuels has been in fuel oils, and consumption of solid fuels has decreered. The future lies with an increasing use of fuels produced by the new processes.... nuclear electricity and oil gas with, in addition. natural gas. The distance of the Region from the mein coefficids has moset that energy prices have been relatively high in its learnely coal-based fuel economy. The South West therefore stands to benefit more than many other regions from the major move to oil and 'niped' fuels which can be expected in the fotom.

TABLE 30 Consumption of Fuels, 1965

Fuels	Consumption.	Per cent of UK tot
Coal and Coke Oil	3-3 million tass*	34
Gas	3-0 million tees*	3-9
Electrisity	8,600 million kWh	5-6

Tatal Austria 14 million tors 48 Weekydoog 2.8 million tone of our and about 1.0 million term of all writed image digitised by the University of Southampton Library Digitisation Unit

used for making electrosty and gas

265. In 1965, nearly 6-1 million tons of coel and coke were consumed in the Boolen's west of the coal came from the Midlands Pariti Wales and Yorkshire. There is thus a considerable transport element in the cost of cost used in the Region, Demend for coal is falling most rapidly in the house coal market (down by a shird to about one million tons in the last five years) and in general industry (also down by a third to barely half a million tona). The biocour users now are the electricity and one industries. which in 1965 consumed 1-6 and 1-2 million tons respectively, but the demand here is also likely to contract in fees of competition from oll and natural one.

Electricity

205. Three area boards supply the Region--the South Western, Southern, and Midlands Electricity Boards-but the South Western Board accounted for elmost 60 per cent of the total supply in 1965. In line with the comparetively small manufacturing sector, lectuated consumption per head of population is at present under 60 per cent of the perional myerage. A porticularly heavy financial test for the South Western Electricity Board has been connecting new supplies in pural areas. At March 1968, 90 per cent of ferms had an electricity supply compared with only 20 per cent in 1948 : 95 per cent of other rural premises now receive a supply.

267. The three area boards are supplied by the Central Electricity Generating Board which operates a national integrated supply system. The Generating Board is responsible for four major conventional power stations in the Region-et Portisheod, Pools, Plymouth and East Yelland near Barnsteple, These, together with certain small conventional power stations have a total output exercity of about 1,600 MW.

To this must be added the growing capacity of the Region's nuclear power stations located on the Severn Estuary. Two nuclear power stations are alreedy in operation, at Berkeley (276 MW) and Hinkley Point (600 MW): another at Oldbury-on-Severn (500 MW) is expected to be in operation in 1967. Work is to start in 1987 also on a second station at Hinkley Point, with a capacity of 1,300 MW. to begin operating in the 1970s. A hydroelectric scheme has been proposed by the Central Electricity Generating Board, the Bucks Mills-Cranford Pumped Storage Scheme et Clavelly, which would involve using sumfus off-peak power to pump water into a blob level reservoir, the water then being released to generate 900 MW at periods of maximum

268. The Region is already a net exporter of electricity. In 1965 it produced some 11,000 million kWh, about 30 per cent more than the Region's own requirements, and the surplus was fed into the national grid. 269. The average gost to the South Western Electricity Board for power supplied by the Central Electricity Generating Roard has over recent years been higher than the everage cost to all area boards, although lower than for other areas of Southern England. The reasons for the higher costs are that the Central Electricity Generating Board charges are related to the load characteristics of the area (especially the relative size of the neak demand) and to

the differences in the cost of firels used in the power stations in each area (nuclear power supplies are not regionally costed). Fuel costs are influenced by the distance of the power stations from the collieries and, for the South Western Board, are some 11 per cent higher than the national average. The higher costs for hulk supplies combined with higher than average distribution costs for a region as dispersed as the South West, have meent that the average price of electricity is higher than in any other area in England and Wales except London. In 1965-66, for example, the average price to all consumers in the South West was just over 1 per cent above the average for Southern England, about 11 per cent higher than the average for England and Wales and

17 per cent above the main 'coelfields' average. 270. With the further development of the national grid and its supply from a smaller number of very large conventional power stations, as well as from the growing number of nuclear stations, the affect of these higher fuel costs in the Region is diminishing, and the downward trend is expected to continue. The Central Electricity Generating Board has announced that it intends to discontinue the present method of calculating area fuel costs and to substitute predetermined 'error fectors' for each Board, By 1970-71, a large part of the present differential will have been removed. and this should help to narrow price differen-

tials between the South West and other parts

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of the country.

271. The Region is served by the Southern and South Western Gee Boards-mainly by the latter. The principal sources of supply are still coal gas works in the principal towns, but these are rapidly being replaced by the newer oil-based plants which cost less to build and operate and have marked technical advantages. In the longer term, natural gas will undoubtedly

become increasingly important both as a raw material for our meking and as a source of direct supply. As a result of these changes, one manufacture from coal and other expensive processes for producing gas from solid fuel will have been progressively eliminated by 1975, or even a little earlier, leading to a phased

reduction in coke evaluability 272. The main centre for oil-gas production is the Seebank Plant near Avonmouth, whose capacity will be increased from the present 20 million cubic fact a day (mold) to 170 mold from the winter of 1968-59. It will then substantially excest the capacity of all the South Western Board's cool-gas plant. There are also small oil-cas plants for local supplies at Bristol, Bath, Gloucester and Swindon. An oil-can plant of 20 mold capacity has mountly started operation at Plymouth and is planned to be extended to 120 mefd by not later than 1969.

273. Gas seles in the Region remained relatively static up to 1961, but have since risen by 10 per cent to 130 million thorns. As with plantimity, domastic consumption is minthely more important in comparison with industrial consumption in the South West then nationally. About 20 per cent of sales of gas are to industrial consumers, compared with about 30 per cent in England and Wales. Gas prices to industriel consumers are comparable to the average for Southern Foolerel. If one company prices with coeffield regions, the differential is greater, pertly because of lower coel transport costs in those regions end perfy because some Gas Boards in the coeffields are able to buy colds oven gas from the National Coal Board and steelworks. As oil and natural gas are increasingly used as the materials for gos making, differences in production costs will nemow; but for some years ogel-gas plants will remain important as a source of regional gas

supplies.

274. Total oil consumption in the Region was some four million tons in 1966. This figure includes about one million tons of transport fuels and more than 12 million tons of fuel cit. the remainder being meinly gas/diesel oil and kerosens. About one million tons of fuel oil went to the Portishead, Poole, and Plymouth power stations. The comparatively few big manufacturing complexes in the Region account for its low industrial consumption, but Industrial consumption is expanding and has increased by 90 per care since 1990. Equid fuels now provide two-thirds of the heat load in Industry.

278. Bulk supplies of petroleum products come matery by see from the neseer home reflectise — Liandarry and Feedey—and from impact strough Avenmouth and some of the smaller ports in the Region. The disposed sectionment ports in the Region, the disposed sectionment ports in the Parison of the Region being haufe by sell and need, gives a significant cost advantage to oil fuels as a source of energy for the Region.

11 The Construction Industries

PART III THE REGION'S ECONOMY

276. Including both the self-insplayed and employees, about 125,000 people were engaged in the consultation industries in the Region in risk-flets (excluding professional proposition of the consultation), and the consultation in the South West. The large analysis of the south West. The large analysis of the response to the Region in edificio, a substration than the consultation of the Region in edificio, a substration than the consultation of the Region in edificio, a substration companies of the Region in edificio, a substration companies of the Region in edificio, a substration of the Region in edificio, a substration companies of the Region in edificio and the Region in edifi

277. Regionally as nationally, the construction industries are notable for the number of small firms. Of 7,849 firms registreed in the Region, excluding Poole, in 1985, over 8,000 employed five operatives or lists, and only 11 firms amplioved 800 or most. Marry of the small firms.

are engaged primarily in sepair or maintenance work, or sub-contract their lebour.

278. The estimated velue of the output of the construction industries in the South West in 1986 was £254 million, a little over 6 per cent of the industries' output in Greet Birbin as a whole, Presto contractors occounted for \$5 per cent of this sum, with an estimated output of £186 million on new construction and about

£46 million on repair and maintenance. The output of the direct labour organisations of local authorities, etc., was mainly in the repair and maintenance field.

279. As in the country as e whole, the consequence industries are subject to considerable

attruction industries are adject to considerable fluctuations in dement. They are perfounded vulnerable to changes in garantel economic conditions. In the private sector, they are also subject at posent to the licensing corned operating on new buildings outside the Development Areas costing more than £50,000 (excluding industriel buildings, which are

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regulated by industrial development certificates and housing). Figure 19 shows that there wes a generally rising trend between 1961 and 1965 in the load of new building and civil engineering work in the Region, Privete encorprise house building was pamerly responsible for the leege increase between 1963 and 1965. Contractors registered in the South West increased their production by an average of about 6 par part a year between 1960 and 1965-by 1 per cent through expansion of the lebour force and by 5 per cent through incressed productivey. Nevertheless, the construction industries were overloaded at the peak in many parts of the Region and there were often acute shortages of coast labour end certain building materials.

280. Table 31 shows how the load of new controllers which was distributed between 1984 and 1986. In these 33 meeths, order were obtained for new controllers what to a value of 1908 million (6-3 per cent of the orders came from the private section, and 0 per cent form the public section. Housing, better public and private histories, black of the controllers of the order orde

281, Figure 19 illustrates the affect of the measures taken by the Government in July 1985 and July 1986 to limit the demend in the country's economy. In the construction industries in the Region, the load of new orders fell sharply, unemployment increased, fishing to a rote of 7 per part in February 1987, and ourseending vecenties declined.

Skilled manpower

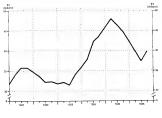
282. The industries look meinly to the apprenticeship system for the skilled men they need, although the government training centree are also adding to the country's stock. The number of apprentices in the Region increased from 5990 to 8,340 between 1950–68. The site of

TABLE 31
Distribution of new construction orders, 1 January 1964 to 30 September 1966, at current rates*

Type of work	Value of orders obtained	Per care of total negional orders
	£ milion	16
PUBLIC SECTOR		
Dwellings	70-6	13-9
D Public corporations (Gae, electricity, coetmining, suitways, air)	24-6	4.0
e Givil		
Education:		1
Schools	19-0	3.7
Universities	6-6	0-9
Heeb?	11-6	2-2
Offices, games, festories, etc.	9-0	1.0
Roads	21:0	4-2
Herbours	20	0-4
Water	4-0	0-0
Enverage	13-0	2-6
Miscelineous	25-0	0.0
Total public non-bousing à and e	133-4	28-4
Total public sector e, b and a	204-0	40-0
2 PRIVATE SECTOR		
Dwallings	187-0	36.6
b ladurtrial buildings	61-0	11-9
Other halldings		
Othors	10 0	20
Shope	18.0	30
Entertainment	10 5	20
Gérages	5-5	11
Schools and colleges	4-0	0.0
Muselaneous	11.0	2-1
Total private non-housing & and o	1170	22.9
Total private sector a, & and e	304-0	69-7
Grand Travi		

westage is such that about one in six of the craft force should probably be an appearable just to maintain the present size of the skilled labour force. There are shortfalls from this sight among some tracks at present, but the shortening of the experimiseship period from five years to four and the setting up of the Construction Industries' Industrial Training Board should help to Impove the position. There will undoubtedly be a need for retraining within the Industry in the future as building methods channe.





12 Incomes

PART IV LIFE IN THE REGION

283. Most of the enelysis of the Respirets conforming performance in undirect experters have necessarily been in terms of employment. Life in the Region of an analyst degree depends upon the armount of income generated by economic endirect, the Region and its disablution without particular to the region of the disablution without the proposal proposal

284. According to the Ministry of Labour family expanditure surveys, average personal incomes in the Region have tended to be somowhat below the national average, well below incomes in the most prosperous regions though higher then in Scotland, Weles or Northern Region. in the period 1961-63, median household Incomes in the Region were about 9 per cent lower than in Great Britain, eithough the overage size of household in the South West was only slightly smeller." Differences within the Region itself, Ingwever, are much more merked then differences between the common and national positions. Some board idea of the scale of these differences can be convert by relating Inlend Revenue statistics of total income by countles to the resident population

285. Because of retirement, non-employment incomes, particularly in Comwell, Devon and Dorset, one a much higher proportion of total

"Funds expenditure survey figures are based an areal surgice biasoboles or each region and, becomes of pumple coupling and they carefully only from authors."

TABLE 22

incomes than elsewhers and total entrings are correspondingly lower. However, the difference in awarege incomes within the Region are partly a reflection of the lower activity mass in the far west awarege amings of those octually in employment very somewhat less widely, although in 1964-68 the awarege for Devon and Cogmeel twee some 13 per own below the national level.

280. Mojor disparities in lecomes between different parts of the courtry could in theory be offised new formation of the court of bring. Not officed new formation of the court of bring highese see corpleted as present but consideration of such information as is waltaken on, for example, the prison of sood, faull and housing suggests that the cost of family into Region, even in the south and wast, is until key to be substantially different from the rest of the courts.

287. Since 1950, both employment lecomes and profits are professional carriages in the and profits are professional carriages in the South West have tended to grow more sprofit than nationally and since the mid-1956 worst specified in the speci

incomes in the Region have increased no feature than in the country as a whole—and possibly rather more slowly. 288. One cause of the lower employment

incomes, perticularly in the south and west, is the greater importance of egriculture and the service industries in the local economies since these industries—and perticularly familing—

Estimated per capita incomes by counties, 1964-65, as a proportion of the regional average

						Per nove
Corrwell	Devon	Dorset	Screenet	Gloudesterphire	Witshire	
83	91	94	94	119	100	_

tend to give rise to incomes substantially lower then those mosived by workers in manufacturing industry. The available information (although this is drawn from a number of sources which may not be directly comparable) indicates that in 1965, everage weakly semings of mele agricultural workers in the Begion (258s, Od.) were about 32 per pent lower than those of men manual workers in manufacturing in the Region (378s. Od.) and 27 per cent lower than the average for all male employees (355s. Od.). The difference in earnings connot wholly be attributed to these structural factors. however. Appendix 22 shows that, in 1964 and 1965, everage weekly earnings of men menual workers in the Region (expluding, among others, agricultural workers) were 6 per cent lower than the United Kingdom awyane. The indications am that the lower earnings as one goes westwards are also linked with a less intense competition for labour and possibly a rether lower level of output per head. Lack of

evidence on factors such as the gapital

employed makes it impossible to draw feet conclusions about the efficiency of economics activity in the south and west. It seems unitiesly, however, that this is infector to the national waterage—certainly the success of firms which have moved into the ears, as shown by their fast rate of employment provetly, suggests that there are no inferent observates to competitive operation (sourt perhaps from the higher cost of transport).

288. Auchieration feature in the models of the content of the cont

13 Housing

PART IV LIFE IN THE REGION

> 280. Present-day housing in the Region reflects its economic history. Largely by-pessed by the Industrial Resolution, the South Wast acquired a less formidable langua of stars housing then the Midlenda or the North; on the other hand, it has a bigh proportion of houses in pericultural areas which, although often in picturesque auroundings, lack piped water and modern sentration. The rapid progress mede in the elimination of the worst of the shows many local authorities bean correlated their initial clearance programmes—has made it nowable for the building industry to make up much of the shortene of dwellings that existed efter the sented world war and to most the needs of the many newcomers to the Region. This is not to say that the South West has no housing problems. The broad gover of the statistics undoubtedly conceels some local shortages of houses of the right type and ridge: the existing stock includes many sub-standard houses in need of improvement or replacement and many more houses will be required to meet future population growth.

Housing progress, April 1945—

201. There were an estimated 1,172,000 coupled developing in the Region in 20,000 coupled developing in the Region in 20,000 one permissent developing deboat 4°S per cord of the soul fireflagment of the soul committed by the soul committed of the Region permissed between April 1948 and December 1956. Thus, more than control of the Region permissed between April 1949 control of the Region of the Region and the Region of the Region

292. Construction of dwellings in the post-war period has broadly followed national trends and fluctuations, with the number of new dwellings completed rising from 11,150 per ensure during 1945–51 to 28,350 per ansure during 1961–65; since 1984 the annual rate of build-

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ing his exceeded 30,000 per annum. The rate of house building in the Region has been higher then the national rate since 1981 (see Table 33).

233, Table 33 six aboves that private engaprise housing has been more imported in the Region then Great Brisin. Sixon 1857, set runnber of dwelling built by private engapsis has exceeded the number built by local disparity increased. The rate of provide engapsise building per head of population has been will above the incident deverage sixon 1851. 236. Appendix 23 aboves the progress of building previous in difference post of the building previous in difference post of the

half the new dwellings built in the South West since the second world way them has been an enoughbare betance between local archedite end private enterprise building, although the emphasis in recent years hee been on private development. In the other three sub-regions, private development has hed an overall and ingressing predominance. As might be expected. there is a positive correlation between migration Into the Region and the rete of housing construction, perticularly in the case of private enterprise building which is immediately responsive to changing demand. The correlation has been perticularly close in the retirement owes on the south coast of Danna and Doutet Conterroly the close sets of nanulation ground in

Begins. In the Northern sub-region, with nearly

TABLE 33

New permanent dwellings completed per 1,000 population

Asses everege 1861-85	SOUTH	OREAT BRITAIN
Total Diolic actumen	64	80
Private establish	34	26

the for wast of the Region has been associated with a low per capita rate of housing construction.

Sub-standard housing

205. No precise statistical information exests about the existent and distribution of sub-standard locating in the Region, not indeed in these any granted was been as the same and the sub-sub-standard in the sub-standard in th

improvement grants.

The lettest local authority estimates of unit develops which require replacement total (22,000, 8 ut these sistemates are based assentially on local authorities' short-serm priorities; they also exclude temporary preferences are serviced to the control which will soon have to be replaced. They see, therefore, a very incomplete representation of the sub-tended housing.

problem. h Lack of basic amenities

I Seld of shake memorized in the 1891 Cerus in information moorded in the 1891 Cerus which shows the number of devellages which shaded cerus in best and wide in and which shaded cerus in the 1891 of may be consumed to the best and which was a similar to the shaded of the shaded cerus in the shaded of the best and the shaded of the best and the shaded of the shaded one or more of these mendion of the shaded of the shaded one or more of these mendions of the shaded one or more of these mendions which will be shaded on the shaded of the shaded one or more of these mendions which will be shaded on the shaded of the shaded one of the sha

Reteable value The reteable value of a house is a broad

measure of its quality. Whareas the average rateable value of all dwellings in the Region is £63 per annum, there were 170,000 dwellings in 1985 (15 per cent of the existing stock) with a rateable value of less than £30 per annum. Most of these were built before 1914. Not all are sub-standard, of course: some may already have had structural improvements. or will be improved in the future, to proiong their useful life beyond 1981. But in terms of broad magnitude this category of dwelling can be said to represent a potential housing problem which will need to be tackled in the future either by replacement or by improvement.

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d Apr of houses

It can be assumed that the total number of old houses in the South West will Include a high proportion of decrepit and sub-standard houses which quote to be rapiered. There are no comprehensive moonds of war damage, past slum clearance or preparty modernisation by which to estimate the number of old houses which are now obsolete. Using such firmes as an available, the best estimate is that there are shout 230,000 dwellings. in the Region which will be over one hundred years old by 1981 (excluding those which ought to be preserved because of their quelity and assthetic value). Many of these, of course, are also houses of low rateable value or without basic domestic amenities.

296. None of these sources of evidence on its own can provide a settifectory estimate of the number of sub-standard houses in the Regard. The criteria used differ widely and there is a degree of overlop between them. Taken together they suggest that these are between 100,000 and 200,000 dwellings which may need to be realised of improved by 1891.

297. Appendix 24 gives a sub-resigned and sub-divisional analysis of the sub-standard housing problem in terms of the estimates referred to above. It shows that, whatever the criteria used, there are considerable variations within the Region. Some of these variations call for comment. In terms of short-term slum clearance renormmes, lack of basic amonities, low receable value and age, the picture in the Nowthern sub-region as a whole is rather better than the regional average, although the figures for the North Gloucestarshire sub-division reflect the problem of sub-standard housing in the Forest of Deen. The Southarn sub-region is also generally better than the regional avaregg, although the Plymouth Area sub-division has an above-average proportion of old houses. Housing conditions are worst in the Central and Western sub-regions. They are particularly so in the Western sub-region, notably in West Correctl where there is a considerable legacy of old miners' cottages. Within the Central subregion, conditions are generally better in the South East sub-division then the Wellington-Westbury sub-division, where there is a high

proportion of old houses. Present housing shortages

288. One way of estimating the present numerical shorting of houses in the Region is to subtract the existing houses packed from the satimated number of patential households. On this statistical basis, the shortage in 1985 may have enounted to not more than 10,000 houses in the whole Region. Indeed, in some parts (particularly the Western sub-region and the

Existr-Torbay sub-division), there is an appearent surplus of houses as the houseling social stress and the houseling social stress and the surplus of the social stress and the surplus of the term of the surplus of the term of the surplus of the term of the term of the such division of such di estimating the balance of households and chaellings, each of which gives a slightly different result. These differences an, however, insignificant in relation to the gross long-tom housing need (see pranges) 6500, 17th general conclusion is that over the Region as a whole the current zowniecel shortage of houses is small although its local incidence varies considerably.

14 Education and Training; Health and Welfare; The Arts, Sport and Entertainment

PART IV LIFE IN THE REGION (conttl)

EDUCATION AND TRAINING
20. That 11 local discretion relationship
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Primary and secondary education 300 Rother over helf a million pupils wern at school in maintained primary and secondary schools in the Begins in 1955. Parrery and secondary education has been developing along the same broad lines as in other regions; with population in the county borough areas promise a relatively slowly, the operator part of the development occurred in the county council areas. In the primary sector, there are still large rural areas; the local education authorities' policy generally is to close the smallest schools and regroup the children in schools with at least three teachers in key villages. Similarly, in the secondary sector, comprehensive schools in some localities have to draw on large ostohment areas, and in many cases are very much smaller than the 10- or 12-form entry normal

smaller than the 10- or 12-form entry normal in the towns.

30.1. Regional variations in papil/testher retics.

30.1. Regional variations in papil/testher retics.

10.1. Regional variations in papil test and lawer lisable in exclusions for the papil lisable in England in 1965 were 1: 24-5 in the Department of Education's Northern Dhistice and 1: 22-4 in the Metropolition Division. In this Region, exabiling Decret, the pupil/testabler retics are sought the South East, the highest proportion of secondary pupils in all types of maintained schools was in classes.

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with between 31 and 35 on mill. In such forms in maintained schools, 48-7 per cent of Depts and 17-5 per cent of agifs were following and solvened selections in subject in the monomous control of the selection of the selection

302. Des goodal feature of he Region is les authority hijn number of independent and direct genet schools. In 1986, feature week 1, 1987, feature gener schools in 1986, feature week 2, 1987, feature gener schools and 214 lindependent schools encogritiout is efforent. The analysis of the schools of the sch

303. In common with the south of England generally, proportionately more children stay on at school after the statutory leaving one in the Region than in the country as a whole. Thus, the raising of the school-leaving age in 1970 will have somewhat less effect here than in some other parts of the country. Similarly, pupils in the Region have a higher standard than the national average in their record of GCE attainments, and are bettered only in the South East Region. Of pupils who left maintained schools in the Region, excluding Dorset, in 1983-64, the numbers with two or more A level passes were about 2 per cent higher then the national average, and those with five O level passes and/or one A level pass were 4 per cent higher. The record in Dorset was broadly comparable. It is therefore not surprising that a higher proportion of schoolleavers in the Region go on to full-time further education than in many other regions.

Further education

304. The Region's facilities for further education are extensive. As well as the universities and other educational Institutions which era national rather then regional, the local education authorities' technical colleges offer at sill levels a wide range of courses, which are predominantly vocational and designed to meet the needs of industry. The colleges are at present organised at three broad levels: local colleges which provide mainly part-time courses at non-advanced level (many of them associated with apprenticeship schemes); area polleges which provide also some advanced pourses; and regional colleges undertaking a wide range of advenged gourses. There is good provision of local and man collectes and one regional college-at Plymouth-which is to be developed as a polytechnic. As noted earlier. a feature of the further advention facilities in the Region is the provision of courses offering trivining in the hotel and estening industry, which is of special importance regionally

Polytechnics

authority.

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because of the holiday inclusory.

305. The White Paper A Plan for Polystochnika wed Olivier Colleges (Comd.) 3000 (prepaise that two of the polystochnika which are to be into make centre of the Development of Biglier than make centre for the development of Biglier to the College of Technology; and at Biretol Physrouth—incompacting the work of the present College of Technology; and at Biretol College of Technology; and at Biretol College of Common of the Work of the Birlinois College of Common on the Work of England College of Common on the Work of England States of Common on the Work of Englan

Bristol Technical College, Universities and other higher

education institutions 206. There are three universities in the Regionthe Universities of Bristol and Exeter, and the Both University of Technology which was founded in 1966, incorporating the former Bristol College of Science and Technology. Other independent instructions of higher education include the Royal Agricultural College. Cirencester, and Seale Havne Agricultural College: white these are of national educational significance, their presence is particularly valuable in the Region, where agriculture is so important. The School of Mines at Cambome has an important place in the economy of West Cornwell; she Governors have put forward proposels which would enable the school to develop in its present location at Camborne in close co-operation with the local education 307. There are 11 colleges of education for the training of teachers. They are associated with the universities and the majority are in the Bristol-Servermakie sub-division. The Government has indicated that any antimal expansion programme is likely to concentrate on the anlangement of existing colleges.

Vocational and industrial training Management training

308. There is a school of management studies or the Bath University of Technology, and some of the further education colleges (Bath, Bristo). Cheltenham, Swindon, Salebury, Plymouth and Comwall) run management training courses of various lengths, mainly for middle management. The further education staff college at Combe Lodge, Bleadon, and the adult education centres at Umbford Monor and Dillocton House also engage in massessment education. A few of the big companies in the Region have their own residential staff training cantres, and the Engineering Employers' West of England Association has for many years provided a wide variety of courses in managemant tachetiques

Creft training

500. The printery notine of shifted indexion is not prepared in the printery, for which includinty is responsible. The stechnical codages in the responsible. The stechnical codages in the Regions give an important point in this week. The printer districts a colorise and, in norm brough these days relies as colorise and, in norm control of the district given and the control of th

at Plymouth. 310. Supplementing the apprenticeship system are the Ministry of Labour government training centres, whose role is to give accelerated training in skills to adults. There are at present three in the Region-et Bristol, Glouonster, and Phythouth, The Bristol Centre, which has been in existence for nearly 30 years, has 247 adult training places, and the Gloucester Centre, which opened in 1964, now has 215 places. Both are being expanded and between them will have about 50 more places by the end of 1987. The Plymouth Centre started in October 1966 and now has 204 places. The centres provide skilled training in engineering and construction trades, and in a number of servicing trades including instrument maintenance. motor repairing, and radio, television and electronic servicing. The Bristol and Glouonster Centres also provide first-year apprentice

training mangineering and radio and electronics.

Area

311. Since August 1986, the South-western
Development Asea benefits from the arrangements for training assistance provided by the
Ministry of Luboux. Arry firm in a Development
Area, whether new or alseady established,
whose industrial development involves additional jobs of reasonable persentence can apply
for training assistance covering both technical
instruction and financial ind.

HEALTH AND WELFARE

Hospital services

312. The boptilal services in the Region was within the administrative am of three regional begolds boards. The South Worsten Regional Regional boards. The South Worsten Regional Regional Boards was convert the large part of the Region aperting about six-servents of the Regional population. The rest of the Region is covered by the Wesser Board (most of Dowest except-seat Withhile) and the Coded Board (the severe parts of Ciliconastrealitie and north Withhile). The section board limit is Bestool am Withhile in Committee of the South Program of Ciliconastrealities and north Withhile in Charles The South Int in Bestool am 100 and 100

edministrated by a board of governors. 313. As well a meeting the needed of the resident population, the hearital services have to cater for the short term, but conceivatival, demand from among the five million heldstymatics who viet the Region services have the langth of the Region, the distincts between reliabley blooding communities to be served also constitute servicing problems, as of the high proportion of odd people in some arress.

314. The long-term plan for the development of the country's hospital services was explained in The Hospital Building Programme (Cmnd. 3000) published in May 1966. The pattern of development for the future is to base the hospital service on a network of district general hospitals providing a wide range of treatment and diagnostic facilities for in-persents and out-patients, and including units for active psychiatric end constric treatment. The quality of existing provision can often be greatly raised by improving such facilities as pathology laboratories, X-ray departments, operating theetres and physiotherapy departments. A trend has already begun, and may be expected to grow, for those needing hospital care who would in the past have become in-patients to receive treatment as day petients or out-perients. An increasing demand for demichary health and welfare services goes with this trend.

315. In the South Western Hospital Region

the Board inhanted in 1948 e service based

mainly on numerous small hospitals. Many of

those, while excellent of their kind, cannot provide the full range of facilities demanded of

a modern hospital. The Board plan to provide

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district general hospitals in the mein contess of population to serve the satroncoling eress. This programs involves building new hospitals at Estoric, Phymouth, Bernateph, Front, Westonsuper-Mere, Taunton, and South Bristol, and extensive tredeviolented of those at Bristol. Exect. (*Foov), Tocquiyi, Gloscoster, Phymouth, Bash and Chiteshem, Even io, it is colontated that many of the smaller hospitals will still necessitate and the service of the servi

316. Similar developments are planned for those parts of the Region served by the Wessex and Oxford Boards. They include new district general hospitals at Poole (now in progress) and, in the longer torm, at Dorchster and Salbury, Further expension is planned of the new Phrices Margent Hospital at Swindow, where eventually a second general hospital will be executed.

317. Sens of these inconvenent schemes have been stated and other are in Immediate prospect. For the remainder of the currently intended ingrovments in the Region's thorpton service enry's breast indication of priorities the been published. The Cooperation's two been published. The Cooperation's two been published. The Cooperation's two the published in Cooperation's two the Cooperation's two states in the Cooperation of the Cooperation's two the Cooperation of the Coope

Health and walfare services

318. The lease piece of the local establicities in finglised and Walles, including these of the submittees in the Region, for the Ingraeum of the Ingraem of the Ingraem on June 1966 as Meeth and Walfare Sho (2022). Capital increases of the Ingraem of Ingraem of Ingraem of Ingraem of Ingraem June 1964 as Meeth and Walfare Sho Ingraem of Ingraem of Ingraem of Ingraem of Ingraem of Ingraem of Ingraem Ingraem of Ingr

Family medical services

319. These services cover family doctors, dendists, chemists and opticises. The Region has rather more doctors for its population than the national average; the difference applies generally throughout the Region, dithough it as most marked in Comwalt, Devon and Dorest. Similarly, there is a higher proportion of dentitosi in relation to population in the South West.

THE ARTS, SPORT AND ENTERTAINMENT

The arts
320. The arts are material to the quality of life
in the Region, to its capacity to attract and
reasin people of lively minds and to its capacity.

trodat pegatasen vow findes and und schollen benefit of some institutions and activities of national regustation; frees include the Solid (16 Vic Company, the Chargegon College of Arts, the annual Sixth and Chalconham Fastivitie, and the Bournamouth Sowmhory Christians (Social Clast Cestics). Novemen, the Social Clast Cestion is regular Social Clast Cestion (Social Clast Central), novemen, the social Clast Cestion in Social Clast (Social Clast Cestion Social Clast Central). (Social Clast Cestion Social Clast Central), (Social Clast Central), (So

the Region spent about £190,000 in 1984-85 on sponsoring the principality of the caputalent of a 0-28 ft rate product in 100, per haad of a population. In terms of rate product, this was neither better than the average for England and Walles, but ballow the level of expanditure in the 'Verbalthin and Kumbausskin, North Wast and Morthern regions.

schiloved much in its first ten years of existence

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in his support of focal arts associations, and in own seaking the full backing of this local outhorities and other regioned organisations in selforist to standing sectivities. One important development which the Association has sponsored, and which between Courty Stunds and extend the contract of the Region.

Sports 1 322. Sport and physical recreation are also an

integral part of life in the Region, especially for young people. The regional aports opunces which have been set up dunng the past two years have been saked, as one of their specific functions, to consult and co-operate with the economic planning councils on matters affecting the future development of facilities for sport and physical recreation. In this Region. the South Western Sports Council, on which are represented all the local authorities as well as other interested organisations, are giving priority to making a major auryey of existing facilities. The Sports Council have monophised that a survey of this kind is an ossential preliminary to an assessment of regional needs and to the formulation of a regional policy for the development of sport and physical regreetion. The results of the South Western Sports Council's work will clearly be of importance to

15 The Region's Amenities

DART IV LIFEIN THE DEGION (contid)

323. One of the Region's greatest assets is the rich variety of its countryside and coastline, desetoned on rocks of nearly every geological formation. It is one of the most attractive ragions to live in, as well as a most popular holiday area Man No. 3 in the nocket shows the amenity areas of the Region. Preservation of these amenities must be one of the objectives in money olumning for economic development.

The coastline 324. The Region is the most meritime in England and Wales, Its 718 miles of coasting. including islands, comprise nearly a quarter of the total coastline of England and Wales. It contains over two-thirds of the best-coastline scenery (classified as of exceptional quality) in-Feelend and Wales as well as nearly helf of the very good quality category. It has nearly half of the higher coastal cliffs (those over 50 ft.) with some superb examples at Land's End, the Lizzed, in North Comwell and North Devon. There are many beautiful river estuaries and veileys, such as the Fal, Tamar, Exe and Dart, and wide attractive bays, such as Mounts Bay, St. Ives Bey, Torbey and Lyme Bay. There is a great variety of seaside towns and holiday villages, ranging from the major resorts such as Torbay, Weston-super-Mare, Weymouth and Newquay to the small fishing villages of Com-

325. It is estimated that approximately onetenth of the Region's coastline is now substantially built-up, but the local planning authorities, conscious that this coastline is a priceless asset, now exert a strict control over coastal development. The varied coastline provides for many regrestional pursuits such as boating, fishing, awimming and surfing, and the local planning authorities, aided now by the South Western Sports Council, encourage the provision of adequate facilities for such activities in selected localities. The National Trust has a considerable stake in the Region, particu-

larly on the coast where it owns 45 miles of the exceptional and very good quality categories of coastline-shout 57 per cent of the Trust's total coastal ownership in these ostopories throughout England and Wales.

Inland features 326. Although the coast has the mass holiday appeal, the Inland parts of the South West Region abound in attractive and spectacular scenery. Much of the Region is free from industrial development and is essentially rural in aspect. There is a wealth of attractive villages and small market towns perticularly in the Cotswolds, West Wiltshire, North Dorset and Devon, Some of these, such as Castle Combe, Lacock and Bourton-on-the-Water, are nationally femous and attract many visitors. Prehistorio remains abound : notable examples are Stonehenge, Avebury and Maiden Castle. There are many large and distinguished country mansions and oastles such as Wilton House. Longlest House, Montacute, Stourhead, and Berkeley Castle, and the Region has some of the finest English cathedrals at Wells, Execut, Gloucester and Salisbury. In Bath and Chaltenham the Region possesses two of the finest examples of Georgian and Regency urban erchitecture and planning. 327. To preserve the countryside and towns

from appradic and indiscriminate development, the local planning authorities have formulated long-term development policies in their statusory development plans. Green Belts have been approved by the Government around the Bath-Bristol and Gloucester-Cheltenham areas to prevent urban sprawl and preserve the adjacent ettrective countryside. Rural development policy is aimed at preserving the countryside end enhancing its beauty in the context of a thriving acriculture, and is often based on the selection of key villages where development and provisign of services are encouraged. Urban wirescapes and cross-country power lines ell come under the scrutiny of the local planning authorities. Policies for the preservation of historic buildings, trees and viewpoints and for control of the sizing and size of adventisements all contribute to the preservation of emands.

National Parks and Areas of Outstanding Natural Beauty

328. The discretization between the production of the control Press and Pres

329. The two National Parks in the Region-Dartmoor and Exmoor-cover more than 630 squere miles. Much of the rolling grante upland of Dartmoor is open moorland used for rough grazing for cettle, sheep and ponies, but its boundaries include wooded, sheltered valleys east of the moor. The main problems in preserving the amendins of Dartmoor arise from its non-reconstitutal uses; most of the north-western aren is a Ministry of Defence training ground; thing play is mined in the south west; rivers have been hernessed and reservoirs built to provide weter supplies: afforestation has reduced the amount of open mondand in Europer Nettonal Park months high morrished there are problems of efforcests tion and tree felling, of ploughing and fencing of open land, all of which affect the character of the landscape and its enjoyment by the public.

necessary though they are for those who make their living from the land.

330. Seven areas in the Region, totaling nearly 1,700 square miles, have been dealgnated as Areas of Dutstanding Natural Beauty. They cover the Cotswolds, the Quantook Hills. most of the Dorset coast from Lyme Regis to Poole with a large inland area, and most of the coastal areas of Devon and Conwell. They contain some of the most attractive pastoral lendscape, constal scenery and beautiful villages in the whole of Britain, Perhaps the most serious planning problem wises in the Deserta and Corrwell opeans areas, whose percelulafor holidays poses a threat to the beauty of the constine. In particular, the rapid post-way growth in the demand for carevan and carneling accommodation calls for stringent planning

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measures to protect those parts of the coast whose capacity to accommodate these without damage to the landscape is limited.

Long distance footpaths 331. A South West Peninsula coast path

stratelying certifucuately from Minshead in Someast round to Studiend in Dosset has been approved in principle by the Government. Negotietions are now in progress for securing public rights of way over it. A short streeth of the Offir's Dylor peth, on the oast bank of the

River Wye, lies within the Region. Nature Reserves

332. The Neture Conservancy has 14 National Notine Reserves and two Forest Nature Reserves in the Region, five of them within Dartmotr National Park. They include such areas to Braunton Burrows, Studlend Heath, Ebboy Gorge and Bridgwater Bay, and vary considerably in size and character. They have been selected for the importance of their flore, found. geology end physiography and the Conseryears has the duty of ensuring their conservation and use for research and study purposes. There are also three National Wildfowl Refuges in the fixe Estuary, at Bridgweeer Bay and at Slimbridge, Gloucestershire. The Nature Conservency has also notified the local authorities of newty 300 Sites of Special Scientific Interest in the Region; the local authorities are statutorily required to consult the Conservency before giving planning consent to any development on these sites. The Nature Conservancy. part of the Natural Environment Research Council since 1965, co-operator with the Netional Parks Commission, the Netional Trust county naturalists' touts the Ecceptor Coremission local suthernee and techniquel landowners in the management of seess of ecologood interest, including many smaller neture reserves in the ownership of county trusts.

Loieure

333. The need to plan positively for leisure in the countryside is now recognised. The Government appropried in 1966 in the White Peper Lelsure In the Countryside (Const. 292B) its intention to complement the National Perks with Country Parks, which will be smax of pleasant countryside, easily accessible from the urban ergas, reserved for concentrated outdoor leasure. This policy of concentration of nonnie traffic and regreational facilities, to provent sprawl over a wide area, is explicable also in the Netional Parks and Areas of Outstanding Natural Beauty in the Region: by plenning for intensive recreation in suitable areas, preservation of the vulnerable errors will be possible.

16 Social and Economic Trends

PART V THE REGION IN THE FUTURE

534. The four earlier parts of this Dreft protection for the Survey for the Surve

POPULATION TRENDS

Regional population forecasts 335. Population forecasting is not easy. More than half the people now living in the United Singuism can be expected still to be bare to the user 2000 Double rates are foldy stable. But high rates shift as social habits change and forecasts have to be edjusted in their wake. National forecests made twenty years ago have been mised drametically upwards in response to the evidence of the earlier ages at which the young women of Britain are memying and having their first babies. How far the trend will go and whether families started earlier will turn out to be bigger families are, for the time being, mentars for speculation, Migration movements into and out of the country affect future birth rates as well as original numbers. Rightly, therefore, the Government Actuery's Department, responsible for official population projections, is continually emending its forecasts in response to freeh knowledge. 336. Regional population forecasts must bear

relation to the current official fooceans for the whole of the Livid Kingdom. They must also take account of population intervenents within be United Kingdom. They must all only on more marias out of this more densely population to open the control of the contr

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parts of the country to halt or reverse their population losses through inter-regional micration. Hem. immedietaly, regional plans jostle against each other. The White Paper on The Scottlish Fooggess, 1965 to 1970 (Cmnd. 2864) proposed that 'the present net outflow from Sectland of about 45,000 people a year should he reduced to 20,000 by 1971-72'. The parellel encorts of English regions, published by side Economic Planning Councils, show these Councils setting a limit to migration losses as a primary objective for their regions, and urging pelicies upon the Government accordingly. If they succeed the flow of people southward will be halted. What will be the effect on the South Wast if they succeed-and if they fall?

337. Thus, astimose of the future populsion of the Spath Water rade at any one point in time can be reliable only in terms of boad magnitude. They we susceptible to revision as new information on social habits becomes evaluable. Government decisions regarding regional policy may applificantly change the incidence and direction of instead miligation. The forecasts for particular assess may be recognitively the proposal of the operation in the contraction of the procession of the contraction of the contr

Estimated population change, 1964-81

338. Three elements are involved in making a forecast of feture population within the Region natural change, it. the not beliance of birth over deaths, among the currently saidern population and their heis; nat migration; end the effect of not migration on natural change.

Natural change

339. The Register General issues regional population projections based on projections of the United Kingdom made by the Government Actuary's Department. The Registrar General's projections on

1964 information estimate that, without regretion, natural change would yield an increase of 324, 000 (or 9 ner cent) in the partian population of the South West between 1954 and 1981. Recause of the bigh average egn of its adult population, comparellysty low rates of natural increase have been a feature of the Region over secont departes. This forecast implies a rather creater rate of natural increase for the Region then in the decade 1954-64, but one equal to only shout two-thirds the rate forecast for Great Britain for 1954-81

Net migretion 340. The Registrar General's lotest everlable forecasts of the regional distribution of the population of the United Kinodom assume that net immigration into the South West, excluding Poole, between 1984 and 1981 will amount to 308,000 people, of whom about one-third would come under planned overspill emangements. All the regional economic planning opuncie were consulted about the internal net migration assumptions to be used for these estimates. Not surprisingly, their individual figures did not sum to zero, as nationally they must, and the Registryr General, in consultation with other government departments, found it necessary to make some adjustments to the figures successful by the regions in order to orrive at a consistent national between After considering the effect of new regional policies the Council believe that the Registrar General's adjustments have resulted in an unrealistically low forecast for the South West. A projection of the net migrational trends in the Region in 1954-64, with weighting given to the incressed rate of net immigration during the early 1980s. would produce an increase in the regional population by 1981 of about 286,000 panels. including Pools. This projection evaluates any allowance for planned population oversort schemes since, on the experience of magnit years, planned overspill migration is likely to successment voluntary immigration rether than replace it. It is the Council's year, however, that both for employment and retirement, are likely to be higher than during the past decade. Accordingly, the Council consider that it would be more realistic to assume that voluntary not immigration alone will account for a population increase in the Region, including Poole, of about 342,000 people by 1981. (This figure is not, of course, directly comparable with the Registrar General's forecast of 309,000 people mentioned above, which includes planned

Net effect of migration on natural change 341. Migration in the 1984-81 period will affect the natural increase in the Region to an extent dependent upon the net effect of inward and outward movements on the age and sex structure of the regional population. Retired people moving into the Region will add only themselves to the population. Young needs moving in or out can be expected executable to add to or subtract from the Region's birthe. Taking the South West as a whole, it is estimated that some 30,000 additional poruletion may accrue to the Region during 1984. Rt

from voluntary net immigration. Total change, 1964-81

342. Thus, on those forms, the County are assuming that with existing national and regional policies, the obttien population of the Region will increase by 696,000, or nepty 20 per cent, over the 1964-81 period as follows:

by notive netural increase by voluntary not immigration 342,000 by not natural increase resulting from voluntary net immigration 30,000

____ Total 696,000 This number would being the total population of the South West to people 4 :3 million people

by 1981 Sub-regional implications even with existing national and regional policies. the rates of net immigration into the Region. 343. Table 34 summarises the possible internal

TABLE 34 Trend changes in civilian population, 1964-81

		Net increese, 1964-81						
Area	Total 1964 1000	By netural secresse '000	By migration*	T000 T	otal %	Total 1981 '000		
SOUTH WEST	3,584	324	372	696	19.4	4,200		
Northers Cretral Southern	1,828 758 750	199 57 45	164 107 84	363 154 179	22:3 21:6 17:0	1,580 922 883		

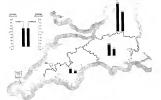
distribution of this prospective regional population in 1981, and the details are given in Appendix 25 (see elso Figure 20). The estimates of natural change in each area are calculated by means of a projection based on the Registrar General's assumptions about territise and mortality rates. The alconfigurat etternaces in the rates of population increase in the sub-regions and sub-divisions reflect their diverse demographic structures. The distribution of the Region's forecast gain from voluntary net immigration assumes that migrational trends within the sub-regions and subdivisions during the past decade will continue at a slightly increased rate; no allowance is made for possible changes in recent migration trends in the Western sub-region if the operation of government policies in the Development Area succeeds in reducing the outward movement of workers. On this basis, the shares of different parts of the Region in the prospective

ment of workers. On this basis, the shreet of different prost of the Reighal in the source protribution of the Reighal in the source prorespond gain by migration are staffer more contributions. The forecast population gain from an actual colors of the contribution of the forecast population gain. The contribution gain from source produces the properties of the source contribution of the contribution of the source contribution of the properties the properties of the properties the properties of the properties the properties of the proper 344. On these calculations, all the sub-regions and sub-divisions could expect ferger populations in 1981 than they have at present, but the rate of population increase would vary significardly, ranging from a 34 per cert increase in 17 years in the North Witshire sub-division of the Northern sub-region (where the influence of Swindon is clearly to be discerned in the forecast high rate of natural increase) to only 6 per cent in the same period in the Bodmin-Exmoor sub-division of the Western sub-region. The lion's share, 52 per cent, of the estimated increase in the population of the Region es a whole, falls to the Northern sub-region. The Central and Southern sub-regions follow with 24 per cent and 18 per cent respectively of the total increase, and the Western sub-region is a

poor fourth with only 6 per out.

36. The popioides points clearly to whate pressures will develop if the searmed transles are resident. The Situal Serverine and chicken will need to accommodate an additional searmed to the searmed transless and searmed to accommodate an additional search of the search of the

Fig. 20 Civilian Population: Estimated Changes in Working Age Groups, 1944-81, by Sulv. Regions.



sends is that the Northern and Castral assembles are significant would have slightly large stems of the regional population in 1981 than they had in 1984 white, conversely, the shires of the Southern and Western sub-regions would have failer. These is nothing in the present structure, in other words, which would cause any break in the long-term shift of emphases in the population of the flegon from the west to the each are also great as egginal transfer men this contract from this and a regional transfer men that the form this population of the flegon from the west to the each.

Estimated population change, 1981-2000

347. It is impossible to predict with any pertainty what may be the longer-term effects on the demography of the Region of existing national and regional policies, let alone the afforts of new policies which may operate in the verys ahead. Neverthaless, some broad way fong-torm assessment is of value as a framework within which the Region's aspirations can be tested and fitted. For this purpose the Counof are assuming that, by the turn of the century. there will be a total regional population of about 5 million pagnie. This represents an increase of conty 40 per cent over the mid-1964 flours and is reasonably in line with present national ostimotes that the population of Greet Britsin will increase by 37 per cent between 1985 and 2000 A.D. But even if this total figure seems realistic, there is soope for very wide margins of cerce in any forecasts of how the population increase may be distributed within the Region. On the assumption that the trends in natural have forecast for the 1964-81 period may continue after 1981, the demographic pattern at the year 2000 A.D. might be as shown in

Planned migration

Table 35

348. It has already been pointed out that the Council's estimates of population changes up to 1981 do not take into occount the possibility of additional population gains from planned

TABLE 35 Estimated very long-term civilian population

1991 2000

Aree	Papulation	population	boompass
	1000	000	boompass
SOUTH WEST	3,584	4,200	5,000
Northern	1,626	1,080	2,500
Contail	758		1,000

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481

arrangements for the reception of gyernoid population from the South East or other onegested regions. A number of schemes toplanned population expansion in the South West are being considered at present. The Government has proposed that, as a contribution to the overspill problems of London, there should be a planned intoke of about 75 one people into Swindon by 1981; this would brise the population of the town to about 200 one by that date, and the local authorities concerned ere now studying the feasibility of expansion on this scale. The Greater London Council are elso engaged in discussions with a number of other local authorities in the South West about the possibility of town development schemes in their areas, which would, in the main, be on a smaller scale than the proposed Swindon emansing 349. In the Council's view, the likelihood,

scale and timing of planned overspill schemes

in the South West is too uncertain at present for

reliable estimates to be made of their offest on

the future population of the Region. The Council operation that planned migration to the South West will chiefly be an addition to the forecast level of voluntary migration rether than an afternative to it, its strategic againfricence will be referred to in the next chaster.

The Severnside Study

360. The calculations of population growth made above assume the continuation of microtion into the South West Region at no greater poce than is occurring at present. No allowance is made, therefore, for the redistribution of national population which is likely to sake place if, as present long-term forecasts show, the national population grows by some 20 million by the year 2000 A.D. The Council would evener that a sexuable section of this increase would more consumts from the consultations on has been and in the cost The Government's review of long-term poputrion trends is not yet completed but the Government has accepted that some part of the population increass will need to be accommodated in new centres, which for reasons of economic and physical planning must be large With this in mind, the Government has decided to study the feasibility of lette-spale development in a number of arres. including Severaside. The Severaside Study. which is to be carried out with the assistance of the local planning methodities, will ambrace both aides of the Bristol Channel. Prims from Sovernside is very suitable for expension, since it is one of the few remaining undeveloped esturgine sites and has great natural potential

for growth. The addition, as a result of the Severnside Study of substantially greater

numbers to the Northern sub-region than are environment above on the basis of current transit could require a scale of devalopment sharphy different in terms of land use and public capital investment from what it is proper to assume at this date.

Changes in age and sex structure,

351. An important question for regional planning purposes is how the changes in the total regional population estimated for 1964-81 would affect the balance between the workingage groups and the dependent age groups. The calculation is not easy to make. Some estimate of the effects of natural change on the demoonachic structure of the Region can be made by projections based on the Registrar General's current assumptions about mortality and fortility rems. It is particularly difficult, however, to forecast the effects of migration, especially since, as already pointed out, there is no information about the total numbers of people who enter or leave the South West, or who move within the Region, Nevertheless, some indication of the possible effects of migration can be obtained by assuming that the net immigration forecast for 1964-81 will be broadly similar in composition to the nat

immigration test analysed, namely, that between 1959 and 1961. The octooms of the octout state of the state of the calculations on these lines is aboven in Tables 3 and 37. Table 38 aboven how the population of 1964 end that estimated for 1981 divide between the three (unequal) gap groups of children, persons of working age, and the diefery; Tebb 3 aboves the selection change in the number of persons of working age, *

392. On the Council's estimate, the proportion of children and elidedy persons in the total population of the Region will increase between total and 1981 and the proportion of population of the Region will increase. Trees erious are in fine with forecast resinced trends. But there are marked differences within the Region. The age and differences within the Region. The age and differences within the Region. The age and difference within the Region. The age and differences within the Region. The age and difference within the Region. The special council and the second accordance to the national average, will remain so in 1881, whereas in the Southern and Viessom sub-regions, and on a losser estimit

and Western sub-regions, and to a losser extent in the Cantral sub-region, the relatively high "The Working Age Orace" concess making of 15-54 and families and 1-1-40 and literatures. A Company of the Cantral and 0-1-40 and literatures are considered to the control and 0-1-40 and literatures.

TABLE 36 Estimated age distribution of civilian population, 1964 and 1981

Arse	Chi	den	Working age		Eldsely	
	1984	1801	1884	1661	1964	1981
GREAT BRITAIN	231	20 4	61 0	57 6	19-1	160
SOUTH WEST	226	25.0	601	557	17 3	19 0
Northern Central Southern Weidern	23-3 22-8 21-3 21-3	25-0 25-4 26-2 24-6	51-3 59-4 58-8 59-0	50-0 50-3 52-6 52-6	15-4 17-6 19-9 19-7	160 193 292 228

TABLE 37
Estimated changes in civilian population within working age groups, 1964-81

	1964	Change, 195	14-81	1681
Am	Total '000	'000	%	Total 1000
GREAT BRITAIN	32,344	+1,830	+ 57	34,174
SOUTH WEST	2,153	+ 230	+10 7	2,363
Northern	996	+ 150	416-9	1,164
Central	450	+ 80	413/2	509 487
Southern	447	+ 20	4.46	
Western				263

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proportions of elderly persons in comparison with the national average will become even more proportioned.

353. Changes in the size of the working-age population, and its relationship to the depandent age groups, are of course particularly important when considering the Region's prospects for development. Table 37 shows that the increase in the Region's working-age population between 1864 and 1981, on the basis of the Council's forecasts, is expected to be proportronered much greater than in Great Britain. The resign fles entirely in the large proportional increases estimated for the Northern and Central sub-regions (see Figure 21). In contrast, the increase estimated in the Southern sub-region is below the national overage; for the Western aub-region-no allowence being made for the effects of existing policies in the Development Area—there is an absolute

decrease in people of working age.

364. If these trends operate se calculated, where consequence is to be read in Tablo 38. For the country as a whole, the number of dependents to be supported by those of weeking age is due to dise and it can be assumed what increasing peoducturity will allow the concerning to take this teacher in the safety to expend the second of the supported to a servince glotter of social services, much of the cost of a supporting objectively. But the cost of a supporting objectively and the services of the support of supporting objectively.

1,000 of working epe was above the national

average in all South West sub-regions, but only slightly so in the Northern sub-region, and the other three sub-regions were all much in the same position as each other (about 700 dependents per 1,000). By 1981, however, on these calculations, the Northern sub-region will become more favourably situated roletively, the Central sub-region will become sether more unfavourably situated, but in the Southern and Mastern sub-perions the number of decease ents will become markedly greater. A distinction should perhaps be drawn between the Southern sub-molon, where the alderly include a high proportion of setting presenters of independent means, and the Western sub-region, where the forecast increase in elderly dependents is due more to the effects of the population ege

MANPOWER SUPPLY

358 From terrots in population, settings, working-size possiblen, was turn in the running as that population who can be secreted to make up the evailable supply of memories. The question will then be selded whether the exceeding growth in the number of persons seeking jobs will be matched, current trends, by growth in the number jobs workels. To come senter the engaging of cliquids an immediate migration of pressure of working sign has been assumed which will only acceptable to the common services of the acceptable pressure and processing the processing the section of the acceptable of the common services of the acceptable of the section of section of

domend for menopwer as well as of the

Fig. 21 Christen Population: Future Estimates by Natural, Migrational and Total Changes, 1984-81.

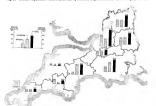


TABLE 38

TABLE 38
Estimated number of persons in dependent age groups
ner 1.000 persons in working-age groups

	GRE/ BRIT		SOUTH WEST REGION		WEST Northern		Central Bub-region		Southern sub-region		Western sub-region	
	1964	1581	1984	1561	1984	1981	1964	1981	1964	1981	1964	1981
Children Eldely	374 243	458 278	375 289	465 341	381 251	448 278	294 300	442 352	362 328	690 641	342 335	486 436
Total	817	798	686	716	652	724	£84	814	700	901	627	800

Estimated home population, 15 years and over, 1970*

		100	Parsons		
	Age 15-64	Age 65 and over	Ago 15-59	Age 60 and over	
Estimated home population	1,184	229	1,082	469	
Change from 1984 of which, due to netural change due to migration	+27-2 - 64 +33-6	+396 +196 +196	+13 d - 52 +19 0	+43.9 +18.9 +25.0	

"South West Engles, medicaling Fools

potential supply. But the enquiry is not who by circular, if only because of sub-regional differences, and it is well to check. It is convariant to look separately at the short term, up to 1970, and the long term, up to 1981.

Supply of manpower, 1964-70 358. The Council's population estimates sug-

gest that by 1970 the home population of the Region will include 1,383,000 males and 1,481,000 females aged 15 or over. These Igures represent an increase on 1984 of 88,200 males and 98,300 females, of whem 27,200 and 13,800 espectively will be of working age. The whole of the latter increase will be due to migrational change.

357. Any estimate of the potential supply of labour in 1970 depends on the seg groups of the population and the assumptions made the population and the assumptions made about their activity sates. Table 38 shows that the greater part of the additional population will be owned to be supply and it may be affely out the country of the section and the ray be assumed to the Region secretary and the temployment of the section of

find employment. The level of activity rates is

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to some extent deposition on the pressure of demend for labour. Activity rates will nee and unemployment will fail when the pressure of demand is might, these defining to the shoot registry. The properties of t

358. There is no detailed information on activity state of the vancous age groups of the population in each sub-region, and extrastion of auth-regional management supply in 1956, therefore subject to considerable uncertainty, it is important that the searcies should be attempted, however, since one of the main features of the Region's libour market is

threeved autject to considerable uncertainty. It is important that the averable should be attempted, however, since one of the main features of the Region's labour market is the differences between the sub-regions.

359, Only in the Northern and Central sub-regions are the numbers of becopie of working

age expected to grow sgnificantly by 1970. In the Southern sub-region, the estimated increase is only a few bundred while in the Western sub-region a sizeable decrease is forecast. A rise in the population over reterment age is expected in all sub-regions. On very crude

TABLE 40 Estimated changes in manpower supply, 1964-70*

Area	6600	Employment (in employment and unemployed) 1984		DA.	19090 IR 190900 943 34-70	wy	Total mempowar supply 1970		
	Males	Fersales	Total	Males	Ferrates	Total	Males	Famales	Total
SOUTH WEST	966	459	1,327	20	16	46	803	476	1,372
Northern Central Southern Western	664 169 176 82	233 84 66 46	677 242 270 138	17 7 4 2	10 3 2 1	27 10 6 3	461 165 178 84	243 67 93 47	754 252 276 141

essumptions about activity rates, it is estimated

that these forecasts will yield the changes in supply of people evaluable for employment in 1970 which are shown in Table 40. 360. It must be emphasised that the figures in

Table 40 are assantially projections of outrant trands and might be meterally different if the pressure of labour demand changed. For aximple, the total menpower supply in the Western sub-region may prove larger than that forecast in Table 40 if policies for encouraging new jobs in the Development Area lead to fewer people of working ago leaving the subregion.

Supply of manpower, 1964-81

381. In trying to forecast labour swallshillsy in the early 1980s the two mein fields of uncertainty are the distribution of population between the various age groups and the embley rates which can be applied to the population figures. in the light of the Council's estimates of the future population of the Region and efter considering the brands in activity rates for each are group (allowing of course for the drop in activity rates expected to result from the raising of the school-leaving age in 1971), it would appear that the supply of manpower in the Region can be expected to increase by some 125,000-135,000 between 1984 and 1981. This implies a rate of growth significantly below that experienced in the last elecade but still well above that expected in the country as a whole. As with the population estimates. this floure discounts the possibility of changes in the labour force due to planned overset! achemies or as a consequence of the Severneide

362. Within the Region, the fastest rate of increase as well as the bulk (about 9) per cont) of the additional workers can be expected in the Northern sub-region. The Central and Southern sub-regions are expected to have small increases but current trends indicate that

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Study.

little charge can be expected in the Western sub-region. THE ECONOMY

363. If the manpower trends give a picture of

a Region rapidly expanding in population and lebour auoply, do the current trends in the aconomy of the South West show the same result? The question is dealt with in this section.

Agriculture, forestry and fishing 364. It has been shown in Chapter 4 that, on

overage, the farms in the South West do not differ markedly from those in England and Wales. But within the Region, as in England and Welas, there are significant departures from the svarmon; at one extreme there am the very large arable farms on the chalk downs, and on the other the small farms on difficult land in some perts of the fer south-west.

365. The smaller form is a dominant problem in the Region, as it is in England and Wales, in not providing e living acceptable by modern standards. Recent povernment measures designed to teckle the national problem, may banefit the smaller farmers in the South West. Thas meesures include incentives to more co-operation between producers to enable them to share the banefite of easie of externose and of specialisation. Small farmers who wish to intensify their production may qualify for capital grants. For some, however, more land is the only solution. The Agriculture Act 1967 provides for payments of annuities or lump sums to small formers who voluntarily release their land for emalgemetion into larger units for whose re-equipment there will be financial help. There is as yet no evidence of the extent to which these incentives may accelerate the present trend of amalgametics of firms in the

386. Hill ferming is important in Davon and Comwall. The costs of land improvement, including expential field drainups, era higher than in less remote areas. The Agriculture Act 1967, offers higher government contributions swants papital work of improvement and should result in increased productivity in the hill terms of the Region.

367. The Council note with interest the proposal for the establishment of rural development boards to keep under review the special woblems of the more difficult hill areas of England and Wales with responsibilities to draw up and implement programmes of development, taking into eccount the interests of agriculture and forestry as well ee tourism and recreation. The Government has not stated which ense it has in mind for the establishment of the first boards, which are likely to be tried on a priot besis in one or two areas only, at least initially.

568. The emalgametion of forms to give bigger units and their consequent re-equipment; the intensification of farm enterprises, the need to make coord the loss of form labour by machaniauton-all these factors lead to a demand for more capital. It is difficult to quantify this demand, but it seems certain to remain strong in the foresepable future. 368. The running down of the Region's

egricultural labour force, presently at some 3 per cert a year, seems likely to continue. Current trends indicate that the loss of agricultural manpower between 1984 and 1970, excluding the self-employed, may amount to about 12,000-13,000 people, or more than one-fifth of the total number of people at present employed in agriculture and horticulture in the South West. The loss is likely to be a smeller proportion of the present lebour force in the Western sub-region than in the other sub-regions

370. No appreciable change in the relatively small labour forces of the Region's forestry and fishing inclustries is foreseen for the medium term. The growing demand for timber offers good prospects for the expansion of forestry. dependent primarily on the amount of new lend which can be made available for this purpose. The derefict woodlands which abound in all perts of the Region are unlikely to contribute more than a few hundred agree each year to the nisoting programme and the main potential for expureion lies in the land which has never corried trees and which although troboloally strautable for application, could be turned over to forestor without difficulty. Lend of this type in the Region totals some quarter of a million acree, but the amount available for forestry is limited by commons rights. National Parks policies and other emenity considerations.

371. The Council do not yet have sufficient Manufacturing information to assess the long-term prospects 374. The account in Chapter 6 presents a

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Mining and quarrying

372. Mining and guarrying is a significant sector in the economy of the South West. perticularly in West Correctil, as the survey of the mineral industries in Chanter 5 has shown The expanding china clay and ball clay industries ere of national as well as regional importence, and we substantial exporters. The industries see no limit to the demand for their penducts. The output and export of olays equid be considerably increased, but amen'ty conalon, as do transport problems such as difficulties concarning permission for eccess roads and adequate part facilities. The indus-

for the fishing industry in Devon end Cornwell.

The demand for the industry's products is

likely to continue and much may depend on

the extent to which the industry is able to solve

tries are well advanced technologically, and their further development is likely to lead to an too, has a more than regional significance; while the future size of the industry is largely dependent on world proce levels, it may be that Comish tin will recover some of its historic significance. There is every reason to expect a continued growth in damend for most of the Region's minarels which are used in building end road-making-notably the carboniferous and older limestones, granite, and sand and gravel. Cosimining is the only declining mineral activity in the South West, 373. In total, the Region's mineral resources.

eppear to be adequate to austain on expansion of the mining and guerrying sector, A melor problem for the future will be to reconcile the sometimes conflicting delime of, on the one band, rising demond for the minerals of the South West and, on the other hand, competing developments and the preservation of the Benjon's amenidos and its better quality antiquitural land. In the case of the important chine olay and half day industries, arrangements exist for consultation between the local planning authorities and the industries on proposals for development within the clay fields which might projudice mineral working. In the Western Mendips, the Wys Valley and on the South Deven coast, the local planning authorities' concent policy is to restrict the opening of new limestone quarries to preserve the emenities of these areas. Forecasts of future demand published in 1985 estimated that regional production of sand and gravel will more than double by 1975-80, and such a most expension will clearly acceptuate the amonity end egricultural problems in some of the meas of the workings.

Securation record of past expansion by marketizering industry in the Region over a scenarior plant of the properties of

ability of altes altited to the equilient occinomise of the Miclanda and South flast and which have seen the Region as a spring-board for a level leep forward. The diversity of production in the Region is flustrated in Appendix 25, which lists the larger industrial firms in the South West.

378. For several years from the late 1960a.

370. For soviet yees from the last 1850s, and the commitment of the control of th

376. Despite Indications of slower employment growth recently, there has been a steady rate of expansion proposels in industrial building, and it is probable that the Region has now shaken out some of the retarding factors which appeared to be affecting the longer-term prospects of the regional economy in the period roughly from 1961 to 1956, Inperticular, prospects for the large aircraft and serospace inclustry in the South West have now been improved. In broad terms, the production of stringers if the Concord programme proves successful the broadly bessed production of sero-engines, end the expansion of helicopter production will lead to a full load on the inclustry which will have to increase its lebour force for some years about

377. The total market for motor care seems bound to continue to expand, leading to growth of body peculiation at Swindan and to increased opportunities for component and equipment supplies in the Region. Long-term prospects for the peculiation of commercial vehicles are also good.

378. The Region's engineering complex is becoming steadily more apphraisand: electronics, which is expanding nationally at a very fast rate, is growing relatively in importance in South West's engineering scription. These considerations point to the Inhead

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expansion potential of engineering in the Region. 379. The Region's consumer goods including

contain a considerable cacles of firms occupying strong positions within their ownindustries. There is no reason to expect that these titisatries are agroup will not accure their share of metional exportation to meet the needs of the growing population at home and abroad. Generally, expansion prospects for industry in much of the Ragion look sound for

some years sheed. Considerable expension cen take place in terms of output end produotivity. Expansion of employment, however, will depend a good deal on the way in which the Government applies its control over the creation of new factory capacity. On the one hand, a restrictive policy towards inclusive building could slow the rate of growth in manufacturing employment, though to some extent this could channel the Region more atrongly towards even higher productivity. On the other, schemes to inject new population into various parts of the Region, notably Severnside, would call for a phased introduction of new industry; such a combination of indigenous manufacturing expension and new industry could lead to an even more rapid rete of growth then was experienced in the decade 1054-84 381. This broad assessment can be taken to

oar: I may todad assessment can be staten to a sparky to the Northern and Central but-regions. In the Southern sub-region, prospose of manufacturing separation objected considerably manufacturing separation objected considerably and the separation object of the section of this important centre of the section and was of the Region, although Chapter 3 suggests that there may be reserved of section in the sub-region now which could be drawn into manufacturing Industry.

382. In the Western sub-region, the arrows of menufacturing is still relatively small, though there are one or two large concerns, Expension on the basis of existing firms in thus limited Although the prospects of ettracting more industry have been incressed by Development Area status, and could be enhanced by a moderate population letake at selected prints. current trends indicate that the future growth of manufacturing is likely to depend marriy on a gradual accretion of smaller firms attracted to the erea by amonity or government facilities. The sub-region is the most distant from the industrial cantres, but perseptent government action should continue to increese the manufacturing content in the area, No drametic change, however, is likely in the subregion's present merked dependence on agriculture, the holiday trades and other nonmanufacturing activities.

The holiday trades

383. Broosse there are serious again in knowledge about the impact of bourse on the negronal concerny, the Council decided to supprace or investigation by the University of Exists of the economics of the Indiday trades in Devoe and Commissil-the two counties where the weight of Indisaymaking in the Region is constrained. The resists of this and other counties new in hand will provide the country of the Council of the Council of the local form of the Indiday residual solidy towards.

984. Nevertheless, the information which does exist, including the valuable studies carried out by the planning departments of some of the counties, makes it possible to venture some confirming conclusions about the prospects for this part of the regional economy. The holiday trades are faced with a number of nunblares. There is much uncertainty about their future competitive position in face of the relative chespness of holidays abroad. and of the subsidies to tourism offered by some overseas countries. The Selective Emplayment Tex has imposed a new addition to costs. There is need for considerable expenditure to adapt facilities, particularly accommodation, to changing demand. The inadequaces of the road enteries into the Region and ambiens of traffic congestion on the circulatory roads in the holiday areas are further inhibitions on growth.

388. The future of the holiday trackes in the South West is substantishy dependent on the general growth of the British economy, this year was which a busyer resident economy, this profileme recurrented in the provious perspread, yearly increases in holidayments, "specifing are separing off. If this is no, there is circar meed for vigorous settins to get the term denving special gains of benefits the concerning provided prospected for member years of the British of prospected for member years of the British will consider the property of the property of the prospect for the property of the British will not the property of the British of the property of the property of the British of the property of the British will be property for the property of the British will be the property of the British of of the B

be very high,

Office activities 355. The indications are that employment in the office industries in the country as a whole will continue to increase even with the growing automation of office work. The long-term prospects for office development in the Basins will depend at least as much upon the rather uncertain scale of office decentralisation from London as upon national trends in the growth of the office industries. Up to now, the movement of offices into the Region has not had a significant effect on employment growth. even though a number of firms have transfarred headquarters departments to towns in the South West, for example the Commercial Union Assurance Co.'s Computer Centre et Exerter, Debonhams (Central Busing) at Taun-

ton, and Eagle Star Insurance at Chaltenham.

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387. However, the scale of the movement out of central London seems bound to go on increasing for some time. Experience of the precticability of decentralised operations, together with the growing automation of routine office operations and developments in data transmission, may be expected to encourage rather longer-distance moves in the future. The Region stands to benefit from this trend. since it is the one which most London office workers are known to prefer. In particular, Swindon, which lies less than 80 miles from London and which is planned to receive a large volume of London oversoil in future years, seems likely to prove particularly attractive to offices from the South East and this would provide a useful diversification of employment opportunities in the town. The Severn Reidos and the new motorways can be expected to enhance Bristol's status as an

office centre, and Exeter, already a sizuable

office centre, has potential for future growth. 388. Elsewhere in the Region, prospects for a more moid growth in the persons rather limited opportunities for office-type lobe are not so bookt if present distribution is any courie the larger establishments which are more likely to be mobile over long distances. will prefer to settle in the larger towns. particularly in the major office centres, where they can benefit from some of the same external economies, such as specialized services and a atock of suitable labour, which axist in the London ema. On these orteria. Plymouth is the obvious town apart from Bristol with the notential to develop as a major office centre. purposially in view of the large reserves of female labour in the city. Decentralisation of opposement offices possents rather different issues, and Devon and Comwell could well prove attractive in this respect.

MANPOWER DEMAND

200. What do these tends in the main laster. triel sectors imply for the future demand for menpower in the Region? In general, it is much more derigerous to project trends in regional labour demand for periods of more than about five years cheed then it is to make long-term projections of regional labour supply. firms is incomplete, and seldom available for more than a few years ahead; moreover, future changes in government policy can have a large and direct impact on the demand for labour. Thus, most of the estimates in this section relate to the period to 1970, though they may be recepted as consecutly indication of the main trends in the demand for labour in the Region.

National Plan, an Industrial Inquiry was conducted in both public and private sectors of British Industry to find out what growth in the arnes national product of 25 per cent between 1964 and 1970 would mean for each industrythe effect on the demands for their products. their need for additional capacity to meet that demand, the extent of their need for extra menpower. Since July 1966, the taxest of 25 per cent growth has been monomised to be unerwinable by 1970 and the results of the Industrial Inquiry are therefore no longer applicable for that year, Nevertheless, it should not be assumed that, as a consequence, the demand for labour will be yastly different from what was then forecast. The greater part of the 25 per cent was to have come from increased productivity and only a small part from extra menpower. If output grows more slowly, it is have use conductivity advances more slowly. not because the demand for labour is less (unless it is deliberately held down, as at the present time, by government policy). Furthermore, the results from the Inquiry ere still the best estimates of the direction in which the economy is moving, even if the date of arrival is later than was once hoped. In machine their conclusions for the South West Rection in 1970, therefore, the Council have found it useful to eek what the inquiry rates of growth in perticular industries might have meant for the Region, even although they have given greater weight to specific regional factors-in particular, knowledge of the prospects of particular industries and firms in the South West, such as is drawn upon above, and the fact of the rate of growth in employment in the Region in

recent years, which has been much faster than the national rate.

391. On this basis, the information evaluation indicates that manpower requirements in the South West may grow by about 61,000 between 1954 and 1970: if recent bands were main-

taind, this demand would divide between TABLE 41 Estimated maximum growth of demand for manpower, 1964-70°

	1 togethous
Industry	Change in demand
Agriculture, mining and quarrying Manufacturing Construction Distributive trades Other services	-13 +15 + 6 + 8 +45
LATOTAL	

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miles and formales in the mico of about 2.25 Peripolymen has been forceasing more and peripolymen has been forceasing more and forcer in the South West than entirectly recomfold, and our estimate assumes that this mod will broadly centimus. Projections based on the will broadly centimus. Projections based on the delived force the 1956 Industrial Injury would allowed been the 1956 Industrial Injury would allowed been the 1956 Industrial Injury would allowed been the 1956 Industrial Injury would allowed to the 1956 Industrial Injury would project the 1956 Industrial Injury would allowed the 1956 Industrial Injury would allow the 1956 Industrial Injury would show that the 1956 Industrial Injury would will be 1956 Industrial Injury would which is likely to occur. Traits of all shows the 1956 Industrial groups.

392. Similar assistances have been made for each of the sub-regions. They suggest that the fastest growth in desired in Sieky to occur in the Northam and (from a much smaller bose) the Western sub-regions. But even in the Southern sub-regions, which shows the stowest growth, the rate may be slightly fester than a projection of natureal rate weed indicase.

383. As might be expected in view of an interestive of demand and apply round at the hierarchical professor and an apply round at the beginning of this enquiry (parsigned 395), but supply of and demand for ledeour in 1970, in the flighte as a whole and in each of the electricities, see not failing to be few out of remotions, and the flight to be few out of entroles, and the flight of the remotion level of demand allower in the second section of the section of the second section of the second section of the second section of the section of the

394. The calculations suggest two deteiled searches of possible solar. One is of some pressure of decead for labour in the Western and the search of search search

tery apriculative.

Demand for labour, 1964-81
385. It is impossible at this stage to attempt to quartify the floaty long-term regional damend for labour, but if our essengation (in pages) will grow the stage of the stag

have reached their limit.

17 A Strategy for the Region

DARTY THE REGION IN THE FUTURE

396. Regional planning is concerned with decisions to despion the infrastructure of the economy and with the location of employment and population. The aim is the fullest use of the resources gyerlable in the different regions of the country. Having examined the trends in population and employment in the South West. the Council sum up in this chapter the prospacts for the Region and outline a strategy for the development of the Region's resources. There follow the Council's conclusions, in Chapter 18, on the economic policies negessery to implement the strategy and, in Chapter 19, on the investment required to provide the

The basis of a regional strategy

397. From the outset of the Council's work there have been evident the sharp contrasts between the prosperous and dynamic economy of most of the north and east of the Basion and the uncertainties of many parts of the equity and west. These contracts are in microroam. those which exist in the economy of the Linked Krogdom as a whole. The northern and eastern borders of the South West Region abut on the two main regions of the restion's economic growth, namely, the West Midlands and the South East, Inevitably, the latter's prosperity spreads increasingly into these parts of the South West, If these parts alone made up the Region, therefore, a regional plan might simply welcome the prospective influxes of weelth and activity, set out the infrastructure of highweys, houses, schools and other public services required to make the development feasible and emphasise the careful lend use planning recessary to ensure that it did not become upon amenity. In fact, the Region also embraces the great south-western portraude which though not having the same intensity of problems as some other parts of the country, nevertheless displays many of the features

which have given force to regional policy: in

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places unemployment, in places obsolescent industries, in places rural depopulation. The declared alm of regional planning is a full and balanced development of the country's economic resources so that each region can make a full contribution to the nation's economic growth, and a regional plan has a special responsibility to be congerned with those parts of the Region where the conditions

described obtain. 398. The Council's 'ressonable aspirations' must constitute a consistent strategy for both these main perts of the Region, Teking a long view, the whole of the South West Region connot fail to occupy a much needed place in the nation's future. The present forecast is that the population of the United Kingdom may increase by some 20 million by the year 2000. An ingreese in productivity per worker of no more than on average of 2 per cent per annum over the next 30 were gould raise the national income by 120 per cent. If Ilidain's larger and wealthier population is to be accommodated et the standards of life and amenity it will expect and one afford, then a far-sighted planning of the occupation and land use of the South West Region must of necessity be a part of that provision. There are merry perts of the South West where planted development could ensure a successful expension of population and aconomic artists; become the relationby blob levels implied in the transle environed in the pervious charter: there are certainly other parts when planned development is no less essential if they are to contribute fully, in the way which will be peeded to the life of a proving and predominantly urbanised com-

200 But white we over absence have the post generation in our sights, it is on behalf of the generation now living that the Council are first colled upon to construct a regional strategy. For the period of time surveyed in the previous chapter-conveniently, to 1981-the trends

mounity.

display a difference which the Rogion wan more marked than that displaced in the certific survey of the current disulface; an increasing potential for growth in the routh and east; in the south and west, a demand for labour which will mate the supply, but only because young workers will continue to drift sway from the rare, depressing the rare of population behind them. These figures of the future level and structure.

and leaving an againg population bashed them. These figures of the future level and structure of the population of the South West derhom coveres reactive level whost rates of the concept of the population of the South Sou

existic can if be changed?

60. The population feverests for the Region 60.

The population feverests for the Region 60.

The population feverests for the Region 60.

The control of the Region 60.

The respective feverest feverests feverest fever

characteristics which leave only limited room

for variations. On the Council's floures, natural

increase accounts for about 47 per cent of the

Region's forecast asin of population, and

natural changes are determined by the size and

structure of the present population. Whatever

new assumptions may be made about mortality and fertility rates, the proportionate distribution within the Region of the gams to population from natural increase are likely to remain brooky unoffsened 402. In the case of net immigration, there is more uncertainty and possibly more room for menocurre, since depertures from trends may be brought about both by unforesen economic changes and by specific national and regional policies. Nevertheless the present character of the Region is a strong force. Migrants seaking employment will continue to be attracted for the most part to the Northern sub-region and to a lesser extent, the Central sub-moion Microson for retirement will continue in the main into the South Devon, South Dorset and South Cornwell coastal areas, it may well be the case that the estimates of population change

in the Bristol and Severnside areas will prove

conservative. The Savern Bridge and the

associated motorways and the potential Indus-

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tiel growth of Severnside seem likely to linerases the rate of economic and population growth meantainty. Similar considerations active to the Glousselver-Chellerhammere, to Swinson and to the Pools care. Equally, the very modest similaration forecosts for the wastern and southern parts of the Region are in him with cuerent economic transits.

493. Intrice is one major move which could be made to distrub these estimates. More than a tends of the net immigration to the South West over the 1864-64 decade was in consequence of planned town expansion schemes, and a conflisted planned movement, of poscel from the more congreted regions could edit existing to the Council's forecast of the future segional population. Proposals for planned.

the more congreted regions could edid motivate by to the Council's because of the feature of the council of the

become a major factor in the economic development of the South West. So far, achieros within the South West for receiving London overspill have all been linked with towns on the border of the South East Region, while the only proposal from Birmingham has been a small undertaking at Weston-super-Mara. The largest additional scheme currently being discussed is at Swindon. Where young population has been lost and needs to be recovered, however, is in the south and west. The Greater London Council have shown themselves willing to look further west, certainly to North and mid-Devon and possibly to Plymouth and Comwell To great with append population sourceme and limited labour to offer would-be employers. achemes of this kind, not necessarily all from London, would simultaneously bring population of working age and industrial development. But the problems of London and the other conurbations are urgent and the natural disposition of their authorities is to look for the handlest and quickest solutions, which are generally those nearest geographically, if the south and west is to draw development further outwards, it must be by people and authorities In the Region showing themselves roody and eager to put forward compatitive alternations. Thus, and only thus, can the forestest pattern be changed.

The sub-regions

405. The prospect here set out confirms the Council's initial judgment of the character of the Region as being divided muchby into two habitate, such adulting very different types of userment. The solvengion into which the control originalty divised up the South Weet for stoly purposes, when paried the Nother to stoly purposes, when paried the Nother Southern and Cartall sub-regions and the Southern and Wastern sub-regions response, once the habitate for the occurrence oriety, come utilisately neer to constituting there to have fair in to be convenient to outline the Countil's stategy for the Region in their terms, of counts, it to be boundaries are not ready to readily identifiable or sharply defined, or sub-regional states of the constitution of the countil or sub-regional states of the countil of the countil or sub-regional states of the countil of the countil of the original states of the countil of the countil of the countil of the original states of the countil of the countil of the countil of the original states of the countil of the countil of

The Northern and Central sub-

406. A firm foundation for growth is already established in the Northern sub-region, which is well placed to expand further by reason of its provingly to the main industrial centers of the country and its strategic communications. The Council have lorned with the Welsh Eponomic Planning Council in sponsoring e research study, jointly undertaken by Bath University of Technology and University College, Swensee, into the economic effects of the Severn Bridge and the associated metorways. The Council expect a prowing network of connections between the Northern sub-region and South Wales and all the indications are that. provided no new constraints are introduced, the Northern sub-region will continue to force sheed. The Council foresee natural growth resulting in an increase of nearly one million in the population of the Northern sub-region by the end of the century, but this figure could prove on underestimate if the Government's study of the feesibility of large-scale population growth on Severnside leads to planned expersion on the season side of the Bristol Charnel.

407, In the Council's view, the first broad objective for this part of the Region should be to ensure that the economic growth which is highly desirable, in the national se well as the regional impress, is not imperied either by an unduly decreus application of restraints on development or by failure to provide, on the right scale and at the right time, the communications, housing and public services which are the necessary concomitants of economic growth. The second broad objective must be the proper planning of the physical disposition of the future growth of the area so as to avoid both the loss of amenity and the congrestion problems which have done damede to many of the other prosperous regions.

40B. The Severnside Study is relevant to both these objectives. Pist, when the Council storagy supported the proposels of the Port of Bristol Authority for the development of a new dose-wester lines port on the undaveloped site at Pottbury, they viewed this undertakens

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opportunities brought to the Region by the Severn Reviou and the M4 and M5 motorways. It was with the greatest regret, therefore, that the Council received the decision of the Minister of Transport against approving the Portbury scheme on the grounds that the case for a third liner port had not so far been made out. The Council have noted that the Port of Brissel Authority have taken up the Minister's invitation to put forward, in collaboration with the National Ports Council, alternative proposals for the development of the Port of Bristol and they are following closely the studies which are being undertaken by the Authority to this end. The Council have also walcomed the research study which is being undertaken by Bristol University Into carpo traffic. Most particularly, they have noted the importance which the White Paper on Trenggort Policy (Creed, 3067) ascribes to the relationship becamen the treffic of a port and its possession of a nonvious historiand and hence the significance which is to be atteched to the findings of the Severneide Study for any further consideration of the development of the Port

as a sensible exploitation of the economic

409. Secondly, the Council eccent the Severnside Study, which is due to be completed in 1968, so provide a starting point for dealing with the physical planning problems which rapid and large-scale economic development will ented. We have already noted the intense traffic problems in Bath, a city striving to preserve its 18th-pentury beauties in the motor vehicle age, and the study commissioned for dealing with them. The Severneide Study should take into account the physical consteriots in the uses, and will need to contide the implications of lecousterie development for traffic problems and ensure that the amenities of the Cotswolds and the Forest of Deen are not adversely affected. The Council expect the Government to po-operate plosely with the local plencing authorities, on both sides of the Severn, in the Study,

of Bristol on the scale of Portbury.

410. While we are not able to put forward comprehensive proposals for the location and pattern of growth in the Northern sub-region before these various investigations are comrelated was must draw attention to the need for adequate physical planning in the area running from the Bristol Channel through Bristol to Bath. Whatever the recommendations of the Severnside Study may be, we have no doubt that the pressure for development in this area will be particularly intense. Consideration aught to be given, either in the context of the Severnside Study or by means of a separate study, to the best way of meeting this pressure. in North Gloucestershire, the local planning authorities ere underteking, in co-operation with the Ministry of Housing and Local Govern-

ment, a fend use study directed at meeting existing pressures for development in the Gloucester-Cheltenham area. In the Bristol-Severaged sub-division the policies of the local authorities concerned are at present concentrated on littriting the peripheral expansion of Bristol and Bath, and them is provision in their plans for three concernations of development by 1981, at Thombury (14,000 people) and Yers (35,000) in Gloucestarshim. and at Nalisea (20,000) in Somerast. The Council doubt if these policies will be adequate for expansion of the order we foreses for the future without risk to the amenities of the area. congestion in the two cities and widespread encroschment upon the Green Belt. Alternative methods of development should be explored. ancompassing the whole area of Bristol, Bath, South Gloucestershire, North Somerset and Wast Wiltshire, designed to profit from the new motorway system and to build up, by the end of the century, e new complex of settlaments of major importance.

411. Any plan for the Region must also have recard to the feet that even in the Northern subregion there are problem areas, notably the Forest of Dean, where there have been insufficient new employment opportunities in the immediate locality to replace jobs in the now closed coal mines. There are also some perts of the Cotswolds where the effects of rural depopulation may need to be exercised further. 412. North Witshire lies between the South

East Ragion and Brutol-Severnside and its towns stand to gain from both, probably depending upon how close they he to the M4 motorway when it is completed. So far, the major davelopment has taken place at Swindon and the Council had opportunity to consider closely the rate of expension in this, now the third largest town in the Region, as a regult of the study by Llowelyn-Davies Weeks and Partners (See footnote to personaph 15.) The Council had, of necessity, to consider the effects of development at the rate proposed upon neighbouring areas of Wittshire and Gloucastershire as well as the competing claims for the resources of public investment elsewhere to the Region. The Council support the Government's proposal for the further planned expension of Swindon under the Town Dovelopment Act, yielding an additional 75,000 neople by 1981. The Council recognise tha desire of the Swindon municipal authorities to improve the economic and social structure of the town and applaud the anergy which has been applied to the undertaking. We hope that the requite of the local authorities' study will confirm the feasibility of expension on this scale. 413. Within the last year the six northern

plenning authorities-Gloucestershire, Glou-Printed image digitised by the University of Southempton Library Digitisation Unit

coster, Bristol, Bath, Wiltshire and Someton. which previously had worked together in have groups, have astablished a Joint Advisory Committee for the better co-ordination of these development planning. The Council regard the coming together of the local authorities with statutory responsibilities for physical planning as an essential complament to the Council's own work of advising central government, Ratetions both formal and informal have been established between the Council end the Committee, and the Council intend to collaborate as closely with the Committee in the work of regional planning as the conditions of their wolfe like tremoniogge 414. The Central sub-region probably represents the lime-and in some parts has beyond

the limit-of the extent of the direct influence of prosperity in the Northern sub-region and the South East Region upon areas beyond their respective boundaries. The influences of expension in the Bristol-Severnside sub-division can be expected to make themselves afrantemporaly falt by the towns immediately south and asst of Mandip, and as far south es Bridgweter and Taunton, once road communicotions have been improved. Bridgwater has a well-diversified employment structure at present, but Tounton has the largely service economy of a county town, and a number of Individual towns in the Wellington-Westbury sub-division are heavily dependent upon a single enterprise as a mojor source of employment and income and their immediate fortunes ere hable to very with the fortune of that enterprise. Strung out in line for the most part, however, each is sufficiently near to others for some prospective diversification of employment and activity to awat if the need prices. The eroblem of the villages in the sub-division will be to provide sufficient appointmodellos es ressorable cost for the needs of the agricultural labour force, in face of competition from the urban commuter. When the results of the Severnside Study are known, the Council hope. in collaboration with the local authorities concerned, to give closer attention to the prospects of the towns and villeges of the Wellington-Westhury sub-chicklen 415. As the prospect for the Wellington-

Westbury sub-division has to be seen menty as an extension of the growth in the Northern sub-region, so has the prospect in the South East sub-division to be seen initially as released to the growth in the South East Region stemmind out of London. The counterpart to the Severneide Study here is the South Hampshire Study *published in July 1986. The consultants were rejust to assemine the feesibility of accommodeting within the erea between Southemp-

"Cells Scalaries and Persons in associates with feet Consultants Int | South Hampston Staty-Report on the Feet of Major Libert Drovich 15585 1556.

con an Posimicals (the Continol's) alianate trained and positionis in addition to the forecast natural growth which would bring the conment increase to 200,000 by 1861 with property to the continol of the continol of the growth, thereafter, let the customer, the continues statistioned that such markets were physically feable seed, indeed, that the one continues statistion that such continues are physically feable seed, indeed, that the continues that the continues of continues that the seed of the continues of the

owsers ask of the New Forest, in the eas of topurmental had Poole.

416 How for the logice of development are skally to seemed also the South Barn sale. Ask of the South Barn sale, the seemed also the South Barn sale, the sale of the

Ing between the Greater London Countil and the local subministic concerned. The Government has asked local authorities to examine the properties of a rown disvisionment obtained at properties of a rown disvisionment obtained at Govern by 1991, but of breast \$0,000 and devern by 1991, but of breast this schoolers was unfailed by proceed.

417. Most of the sead-shirton is rurel and it includes askern of the rown attendor busines make and enone of the South West. The need to need interfering with a grantique and 10 or need interfering with a gra

encourage tourist activities points to the

destrability of concentrating future industrial development at a limited number of places including Pools, the Yeavil area and the Waymouth-Dombouter area. Planned mepanginn achievas, may bain some places to provide a sounder nonutation bosselve the local popporty. and the Council welcome the studies which some local authorities are underteking of the possibility of bringing in people from London under such schemes. In particuler, the Council suggest that consideration be given by the local authorities concerned to the possibilities of a planned development in the area of Yeovil-Schester, Such consideration should include adequation of the trunk mad programme to provide appropriate links between the new development and London, Bristol and Southernoton.

The Southern and Western sub-regions

418. The Council are firmly of the view that special measures are needed, not all of which may be popular, if the economic viability of the Southern and Western sub-replans is to be established and maintained and if these artes are to acree the community at teros in a series are to acree the community at teros in a

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way which will be expected of them in the future. Much has been made above of the high age structure of the populations in these subregions. In so far as that age structure is brought about by the movement into the area of people making homes in retirement, there are gains to the community in spending power and in contributions to social life and the voluntary services which ought not to be overlooked when recknown the cost to the rates of periatrics. The net outward movement of young persons is a different matter. No doubt one of the effects of greater educational opportunity coupled with the easy mobility of the present day is that many young people will wish to seek their fortunes in the big cities; but a community to retain its quality needs to possess awide renge of human ability and regularly to replace its own

kind.

419. On the two de porter set out, portruiture. and the holiday trades must clearly constitute stepie parts of the economies of those two sub-majons taking them as a whole. But soncultum and the holiday trades are not e sufficient bees on which the future economy can be established as a constinu concern Aminufaced output may rise but employment and self-employment in agriculture pre. and should be declining. The holiday traces may, and should, seek ways of extending their 'season', but their sessonality as a source of amplyyment is inconscable. People today, and particularly young people, expect as part of their everyday attendard of living a range of accivil and aronnesis provisions in education and welfere, services and entertainmentswhich is economically practicable only if communities are of a cartain size. There is not the growth potential in these two activities to hold together a sufficient number of such communities. A belance of industry is necessary to bring about stability.

420. How may this balance be brought about? There is no doubt that the problems of the south and west, and the far south west in perticular, stom in part from their remoteness from the main population and industrial centres. and the inadequaries of their communications links. It is for this reason that the Council have stressed that an adequate spine road running from Bristol to Penzance is the first planning requirement for the Region. But although emproved communications may mitigate the economic problems of the south and west they will not provide the complete answer. Nor, in the Council's estimation, will success be arbiawed in time through any 'fell out' from developments to the porth or sest. A appulation execution in numbers and wealth to the north

and east will no doubt benefit the south and

west in some degree; in particular, through increased demand for farm and horticultural

produce and through extended use of their

holiday facilities. But, as stated earlier, the tide of industriel development is untilisely to come ao far. The Council consider that a major effort to stimulate growth is called for.

421. If this view is accepted within the Region, should the objective be comparatively largescale development at a limited number of places each of which would got as a focal point for a wide catchment prea? Or should there be a wide sorred of comparethaly small developments? Of gourse, in making provision for the future, it is always wise to ellow room for the unexpected; the opportunity which is suddenly made profitable by circumstance: the local enterprise which, whether by good luck or good judgment, anticipated a demand that neither planners nor competitors foreserv. Nevertheless, in the Council's judgment, the need to make the most officient use of the country's resources points to concentration upon such areas as stand in hope of profiting therefrom. The aim should be to encourage expansion in places where a momentum of growth could be sustained such as would some the economic and outtural needs of a wide surrounding area. With Irrited resources. public investment is thereby concernated at points where its components minforce each other and migrants can be attracted by apacific schemes which provide for their housing and

422. The Council consider that any major effort to atimulate growth must start from Plymouth Plymouth is the one town in the whole of this half of the Region large enough to stand some comparison with urban pantres disawhere in the country which serve es fool for the economic and ecolol life of the communities around there. It is vitel that Plymouth should retain and attract population and enterprise if the whole area is to succeed in doing so. Plymouth's past record, however, is chequered. The population of the city itself has remained almost static for the peet half century, and even including the adjacent suburban argos, the race of population increase has been well below the national everage. Employment increased recedly in the city in the early 1960s with the introduction of new firms when it was temporarily listed as a Development District, but has since increased less rapidly and male employment has actually declined in the lest year or so. 423. Plymouth is undoubtedly handlospeed in relaing the level of its coonarry by its distance from other mein centres-gyer 200 miles from London and Birmingham—and its instrument communications links. But it is niso volumento. because of its dependence on the Navel Dockvard et Devonport, which provides some 20 per cent of total employment in the city and a considerably higher proportion of male employment. Employment in the Dockyard is unlikely to increase; the city's concern is that notional

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outting down. Plymouth at present has few built in economic growth alternatives to registe these activities. 424. Nevertholess, Plymouth has inherent potentialities for sound aconomic growth Thanks to the Dockyerd, there is wall-organised technical training and the city's monogener possesses an anviable degree of technical skill The city has alreedy demonstrated that it is an attractive location for inclustry despite to remoteness, end the problems ensing from this remoteness can, and should, be lessened in the future by the improved communications. The Council regard it as a matter of urgency that more and better use should be made of these qualities

defence policies may sooner or later result in a

425. Accordingly, the Council consider than a reimary aim of recional appropria planning policies for the Plymouth sub-division should be to diversify the employment structure of Phymouth and some of the small towns to the east and west. There is undoubtedly underemployment of the merpower resources in the area, expecially among the woman so some new jobs of a suitable kind could be introduced immediately. But the health of the area calls for a reduction in the present relatively high rotes of emigration, particularly of the younger people. The aim should be to provide a much more diverse employment structure, based in port on menufacturing activities which have good growth prospects which would geter for the skilled as well as the unskilled. The Dockyard is a repair year and it can expect to have a longer period of service to the Nevy then would a construction yard. It is essential to its capability for accepting repair work that there should be available adequate numbers of amployees with a full range of the requiers skills. There is celltherefore, for a clear programme for phasing in new and expending activities on which Phymouth's aconomic future is to be founded. with a phasing out of the ony's dependence on the Dockvard rether than any violent shift in the employment nations, Special measures to bring in new workers may be needed initially, even in a community of the size of Plymouth, to give impetus to this process. The study proposed by the Plymouth City Council of the feasibility of a London oversall scheme In the area should have this objective. 426. The Council's recommendations for Pty-

mouth, here and in the chapters following, are

simed to benefit the whole of the far south

west. We see growth at Plymouth as part of,

not a substitute for, growth in other areas. Consideration should therefore be given to how

best the local authorities concerned con

oc-operate to this end. Cornwall and Devon

must look to the development of Plymouth as

being for their common adventages. Plymouth,

which historically has looked outwards across the oceans, must turn and look inwards

427. Daspite the adverse features attached to West Cornwall in the earlier survey of regional mods, the Council are not unhopeful of the sub-division's future. Given a large-acate economic buoyancy at Phymouth, there appears a fair chance that West Cormwall can attract complementary dayalogments which would If the growth in amployment above the slow ease of predicted trends. It contains at least nen industries with impressive records in sachnological development and export sales. and each mourns, and offers futures for, a wide range of skills. The Cambonn School of Mines and Cornwell Technical College, in the Council's view, are essential complements to these industries in establishing a modern centre of opportunity. Distance, and the costs in turns and money of transport, are the prime obstacles to development and improved facilities can reduce but not remove their incurred this therefore to industrial undertakings in which transport costs are a minor element that the sub-division must look for new recruits. Most Blody, these will be arrell plants making products feeturing a high degree of "brain control" or some other embodiment of novel anterprise. The inclusion of West Cornwall in the South-western Development Area is an indication of the Government's

should continue to make every effort to maintein and accend the number of jobs available. 428. A prosperous Plymouth is essential to West Cornwell in offering contacts and complementary congruenties which might otherwise be 200 miles farther east, But West Cornwell also needs its own focal point to which it can look for essential services and the cultural and social amanities which are necessary if the area is to prosper. A triangle of Truro, Camborne-Redruth and Falmouth, with no distance more than 15 miles, readily suggests itself. It has the largest population concentration, is an industrial and educational centre and is well placed prographically and in relation to rail and road services. The biogest disadvantage when it comes to attracting firms a a baritage of infeder housing, particularly since the qualishility of aureable bousing for key workers is often a major factor in settling a firm's willingness to move the local authorities will have to be prepared to build for newcomers. The Council recommend that the local authorities concerned out in hand an urgent study of the possibilities for development-

of acriculture and tourism as well as industrial

davelopment-in the Truro-Cambonne-Falmouth triangle and of the measures needed to

secure additional population and employment

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awareness of the problems of the area, and the

Council recommend that the Government

there. The Council have noted that the Cornwall County Council have already started discussions with the Greater London Council about the scope for a planned overspill schame

428. The lides of Scilly share many of the problems of West Conwell but their population in unable to benefit from any centre of indextrial development in Commell because of their superson to St. Marry's is about 36 sea misse. They are beserved to the superson from Processor St. Marry's is about 36 sea misse. They are beserved as to be holded dependent upon herbesture and the holded misse. They are bestime to the holded both these advirts and to the problem of communications are contained in the chapter of communications are contained in the chapter of controlled on the controlled mead to give

closer attention to the aconomy of the islands

at some fotore deter.

400, In the Example, educations is search, as an administrative, educational and market control, and make the education and market control, and Totors, as the largest and most exocoractic heliday series in the Social Visite, are supported by the education of the education

431. Prospects lie in two directions: northwards around the A38 to Taunton, linking with Bristol and the Midlands (and with London via the M4); eastwords around the A30 to Honkon, Enking with Southempton and London. This was is the one possible exception to the general expectation that the tide of economic growth originating in the north of the Region and on its cestorn borders will not panetrate beyond the immediately adjacent Central sub-region. The Devon planning authority are investigating the feesibility of an overspill reception scheme between Tiverton and ster ASS/ASS sense measure. These intend similarly to study Homiton and, in conjunction with Exeter City Council, Exeter and the surrounding area, it is to be bened that these studies will yield positive results which, for the reasons pressed in paragraph 404, will then be turned quickly into action.

and returnent areas

432. The part of the Region with the least feworable prospects for sail-austaining economic growth is the seas of North Comwall. North Devon and West Somerac which has here been identified as the Bodmin-Emons bub-distion, it embraces Sodmin Moor. Exmoor and a part of Dartmorr as well as the Bristot Channel coses and the country around

Bernstaple and Bideford Bey. The area is heavily dependent on agriculture, where the trend is for employment to contract, and on the seesonal tourist industry, which appears for the most part to be low-income opered and narrowly sessonal. Them is very little manufacturing employment to complement and help stabilise these activities, and the scattered settlement pattern means that the prospects of growth on any scale are limited. At the western and of the sub-division, Launceston and Bodmin are 25-30 miles from Plymouth: Conwell County Council are considering, with the Greater London Council, the possibilities of planned expansion at these two towns. On the northern coast, the one area where there is some concentration of population is the Barnstople-Bideford area, its traffic connections are with Easter and Taunton, 40-50 miles sweet however, and a sizerble influx of population would be needed to make the area cepeble of self-sustaining growth. The local authorities concerned have recognised this situation, some industrial development has already taken pizon with Development District assistance, end Devon County Council are undertaking a study of the possibility of a planned expansion scheme with the Greater

London Council.

439. But even if it proves feasible to develop the Bernsteple-Bidshord area as a sizeable by

growth point. It is conceivable the periodities for the Region mode for least served by concentrating development within the Tatarine-Served Househ Strategy and the Control Strategy affects of the Control Strategy affects which would be controlled to the Periodic, and in North Decontrol, the Control Strategy and the Con

434. The choices here represented are big ones, involving a positive and urgent emude towards attracting and placing London overspill as well as its siting. On them will turn the shape of the economies of the whole of the south and west. The Council invite they urgent discussion. The Council intend to rell upon the local planning authorities and other interests involved together to work out a co-operative undertaking to make the most immediate use in the common interest of the studies now in hand as soon as these are forthcoming and to see what further local offers besides the direction of public investment funds, is required and how it may best be occarrised

18 Regional Economic Policy

PART V THE REGION IN THE FUTURE

435. To have the Region's economy moving in the disections indicated in our regional strategy requires action by these participating in the oconomic field of the Region, a specific direction to the various components of government to copiest investment, especially public investment. This chapter concentrates on the first tool, for the first two, we choose an industibility of the public than the control of the tool. For the first two, we choose an industic disease that of adolesce and follow the

order of Part III.

Agriculture and horticulture 436. Agriculture is one of the Region's main industries and is likely to remain so. With horticulture. It provides jobs for more than 100,000 people and, according to an estimate mede by the Council, had in 1965 a gross output worth £225 million. Looking shead, if the 'Regional Farm' is to make its full contribution to netional growth, it will continue to release menpower and achieve a still bigger output with a smaller lebour force. This will involve radical changes in term structure. expecially in the fer west where many farms ere too small to yield an adequate livelihood. The Council therefore support the provisions in the Agriculture Act 1967, for financial inconfive for the emeloamation of holdings and for improving the productivity of bill farms.

437. The Council have no deta about farm ncomes on a pounty basis but have made approximate estimates of the value of everage gross output per full-time from business for each of the six counties in the Region. According to these estimates, there is currently e disperity in annual gross output per average full-time form business ranging from £4,700 in Comwall and £5,400 in Dayon to £10,500 in Witshim. Our study suggests that, even if 10 per cent of full-time bodines in Omon and Corrwall were to be amalgameted by 1970, and even if more output were to increase by 24 per cent to 3 per cent a year between 1965 end 1970, gross output per holding in these two counties will in 1970 still be 20 per cent to 30 per cent below the national average for full-time holdings, as it was in 1965. Over the same period, and on the same essumptions, the gap between the two far western countries and the other four within the Region is likely to widen unless remedial action is taken.

438. The Council are making further studies of the problems of agriculture and horticulture in the South Work with nethicular entirence to the age structure of farmers, the age and pay structure of farm workers, and the aupply of capital for dovelopment. In the maintime we have lettilized the preliminary steps disorded in the two boldowing perspective to strengthen.

the competitiveness of the industry in the two fer western counties. 439. In the case of the dairy industry, which is an expanding sector in Devon and Comwell producing by value two-fifths of total farm output, the Council have recommended to the Minister of Agriculture, Feheries and Food that he should invite the Milk Marketing Board to augment their low cost production advisory service to milk producers in Davon and Comwell. The Minister has pareed that implementetion of this recommandation will be of material benefit to roll; producers in the Region, and is cornidering with the Milk Marketing Board ways in which the existing co-operation between the Board and the Minetry's National Agricultural Advisory Service may be further developed.

440. In the case of horticulture, an important sector of the 'Regional Farm', the Council have amphasised the importance of keeping obreast of marketing and production trends in France. An economic and technical investigation is being made of recent developments in Brittarry and in two other regions of France which are likely to compete in the British market with products like qualiflowers, strawberries, applies and nears. The Council believe that more structures efforts are required to atimulate the formation of horticultural marketing groups in the Region, and especially in the fer south and wast and to improve prover contacts with mass retail outlets for quality and local apaciality products. This atimulus will, we hope, be provided by Part IV of the Apriculture Act 1987.

441. Although the horiscutural indistory in the received moves have create adventages arising from both climate and separation, audies from the seven handloop of membersas from its markets. This remotoces the Council's case for a sinn read through to Penamena. Growers in the Stilly false are vitally dependent on their like with the mainfaind and on inter-like the cappet and we are concerned as the control of the contr

442. The Council foreser that agriculture and

horitoiture in the South West will become increasingly dependent on special skills. We therefore welcome the formation of the Agricuturel Training Board and have select the Board to consider the Region's training needs, especially in predominantly rural areas.

443. The Council have noted that farmers and growers in Cornwall and Devon, and in other parts of the Region where holdings are small. derive a significant part of their income from categing for tourists. We believe, however, that they have a higger and as yet largely unrealised concentrative in developing the totalet attendtions of the South West and so contributing to their own prosperity and that of the Beging. grared to the requirements of tourism, and scope for more cetaring courses for farmers end their families. We believe also that there are good commercial prospects for regional specietry foods. We shall pursue these matters further when the messagh team at flyener University have completed the study sponsored by the Council into the holiday industry.

in the United Kingdom.

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Manufacturing 444. Industrial devalopment depends for the most part not on actions of presemment but on individual entermises rejustaly numed and mereced, their ability to attract and direct steff, their initiative and capacity to innovate. their energy and drive. The South West as a whole has a well-drywnifed menufacturing sector, with a good share of expanding industries and comparatively few of the traditional industries with poor growth prospects. In all this, though the sector is proportionately ameller than in the rest of Great Britain, the Region is well set up for future provets. Furthermore, the Rogion is a good one for maragament and labour to this much and relex in. Industrial sites are generally evallable. Wener and power can be supplied. The Region has an excellent record of industrial peace; during the three years 1963-65 the average number of days lost due to industrial disputes was 48 per thousand employees, compered with 100 days lost per thousand employees

445. The big questions affecting development are labour supply, perticularly skilled labour and the distances which materials and finished products, and the managements which buy end sell them, have to travel. In the north of the Region, there is a situable stock of all types and grades of skill, elthough there may be keen competition for it; the sub-region is close to the centre of British Industrial life and communications are improving all the time. In the Central sub-region, easy of access to the main trunk routes differs from town to town. but they shore the common feature of small size, often with considerable dependence on the fortunes of a single industry and with a limited range of specialised skills, in the south and west, length of communications and distance from markets is the prime handican: also, with the major exception of Plymouth, the range of skilled labour is fiable to be the The conclusion is not that enterprise will always prefer to expend in the essier north if allowed to do so, but that there must centrally be some rather special reasons for new enterprises getting satebilished further south

446 Distribution of industry policy is the effort by government to counter the pulls of these coworful and independent economic forms, principally by the two-proport operation of subsidising new capital expenditure in menufacturing industry in the Development Areas and of withholding permission to develop in places where expension would leed to expassive pressure on resources. The Council's attitude to this policy is necessarily embivalent. In pursuing the ressonable aspiretions for the Region, we are inevitably religitant to see developments go to other regions which, given freedom of choice and the scales unwalnoted would have settled in the Scoth West. At the same time, we wish to hove the educations which these policies can give to the points in the South West when centres of growth are needed and can, with this kind of

effort, be established. 447. The cause of the South West is strongest

where it coincides with the national economic interest. In issues over the siting of industrial development, the Council mean to insist that the national interest should not be subjuguted to rival regional pressures. Correspondingly. our objectives for the seess of the South West Region which are in need of support are to moduce an outcome which we believe is in the interests of people nutride as well as made the Region. Our noise is not to nursue industrialisation for its own sake. It is to establish and maintain sufficient industrial and other activity that, with an efficient agriculture and an enterprising holiday industry, steble communities may be established there and be self-sustaining.

448. By sobile communities we mean populations which me large enough to support the crops of anothermatic opportunities, wolfate sections, appear and entertainment indexisions, and, and, that have become a part of the contemportunities insuch of flowing which in particular large enough to offer good prosent on the production of the particular, they must be large enough to offer good prosent the large enough to offer good prosent the large enough to offer good prosent the particular of the particular of the particular of the particular of the particular communities so that they can be a particular of the particular of the particular of the particular communities so that they can be a particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the particular of the south of the particular of the south of the particular of the particular of the particular of the south of the particular of the particular of the particular of the south of the particular of the particular of the particular of the south of the particular of the particular of the particular of the south of the particular of the particular of the particular of the south of the particular of t

442. The Council have given careful consistenion to the recommendation of the Counman's recommendation of the Council of the majorist assistey selected in the previous chapter, leveling against to the samples stated chapter, leveling against to the samples stated recommendation of the Council of the Council of the commission and benefits which accrus to papea having Devropment Acea status, and the bounders of the Area in the South West on testinated.

460. The advantages of Development Area status atem first from positive inducements which are intended to make them more attrective to industry: the Board of Trade has power to make building greats and general purpose loans and grants, and to build envernment featories for rental or purchase for projects providing new and additional emplayment in the Development Asses: expenditure on new plant and machinery in the manufacturing, mining and quarrying and construction industries currently attracts 45 per cent investment grants in Development Areas, compered with 25 per cent elsewhere; and the Ministry of Housing and Local Government our make groups for the obsesses of deseller land and the provision of basic services in these Areas. Secondly, the obligation to produce an industrial development certificate (idc) from the Board of Trada when applying for planning permission for a development resulting in more than 5.000 sq. ft. of industrial floor space (3,000 sq. ft. in the South East and West Midlands) is operated to the advantage of the Development Arees, Applications for ido's are treeted individuelly, but it is the Board's responsibility to great or withhold partificates in the interests of distribution of industry policy. Development Areas and first eriosity and the provision of industry for oversoil reception areast around. Industry for oversoil areas is expected to come mainly from the conumerions which have made the overspill attengements with the reception areas.

461. Unlike the previous Development Districts whose selection depended solely on the level of social and prospective unemployment, the Development Areas defined in January 1868.

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were chosen "with reference to the General ments" wider regional polities and stains account of "all selevant according in activate." Periodicer reference was made to oppulation change, including impration, and employment areas on well as the layed of unersplayment." On these criteria, the Governren band Development Areas in Great Britain of which the South-western Development Area was defined as:

The employment exchange creas in Comwall (excluding Diversion, Saltish and Gunnislake but inskelding Launceston and Bude), end the North Devenshire employment exchange areas of Bideford, Barnsteple and lifescented.

452. The previous chapter declared that the stratney for the Southern and Western aubregions must begin with Plymouth as the one town in this pert of the Region lesos arough to stand comparison with urban centres elsewhere in the country which provide a focal noist for self-sustaining population arounts in the areas around them. The Council have considered the implications of this proposition for industrial policy. We have concluded that it is a louical consequence of our entirest, and so consistent with the Government's reference to wider regional policies, that Plymouth and its surrounding area-the Plymouth Area subdivision (except for the Kingsbridge employment exchange area much of which is designnated as an Area of Outstanding Natural flesuty)-should be included in the Southwestern Davelopment Area.

453. We recognise, of opures, that government industriel development policy is not neerly as rigid as it is sometimes represented. The Government has asseed that, subject to the needs of the Development Areas, epolications for kids for Plymouth will be considered sympathetically. Nevertheless, even if there wass on more to Davalonment Area status then the case of getting stirle it would still be importent for the recognition of Plymouth as the crowth center personny to the south and west. Plymouth can offer apportunities to alreable new developments which no parts of the reasont South-western Dayelopment Area can offer. Yet to any private enterprise planning an expansion. Development Area status is en invitation to investigate sites, whereas the lack of it-and the consequent absence of financial inducements—may be a deterrent. It metters to the Region that Plymouth should receive the same consideration as the motor growth centres of the other problem areas in

454. But there are other points to Devalopment Area status basides ido's. First and foremost are the financial incentives. As noted in peragraph 450, the investment allowances on plant and machinery in the manufacturing and extractive industries are much more generous and there may be grants and concessions for buildings and works in addition. There are also the various occasions when the Government, wishing to favour some areas in the interests of regional policy and looking for boundaries. chooses those of the Development Areas as at least messure-resistant if not onliterally funproof. The siting of some dispersed government offices is one example; the sk-months' postponement of new public works projects in 1965 is another. These points make the argument for the inclusion of Plymouth in the South-western Development Area all the stronger

455. The Council have considered the possible affects of Development Assa status for Plymouth on the prospects of the present Area. Granted that the whole Area stands to gain by making Plymouth its growth centre, will there not also be some herohouned competition within 87 Broadly, one may expect Plymouth and the smaller towns to attract different sizes and kinds of development and that the influence of the Board of Tends in the execting of ide's, the promotion of factores, etc., would be exerted to that and. For the larger developments, as implied shows there will be no compession. Only Plymouth is parable of accepting such; West Comwell-together with East Cornwall and South Davon in the Plymouth Area sub-division--stands to banafit from complementary activities and sub-contracting. For the smaller developments there could be greater competition. Undertakings which would have chosen West Comwall for its Development Ame banefits may press for Plymouth with the benefits equalised, North Devon, because of distance and the physical obstacle of Dartmoor, has less to gain from growth at Plymouth then have other parts of the Development Area and may find its eastward position less of a compentive advantage against Plymouth than against West Cornwall

die. In Chapter IT we excess and control of the property of the property of the control of the c

extent depends upon the size of the growth in

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population and upon the degree to which communications are improved. If the local authorities' plens for a substantial population Intake in that area mature, it will be necessary to introduce industry on a scale sufficient for the new level of population and to improve the road link with the M5/A3B. If the Intake is not physically feasible or if it is ruled out by the capital cost or any other reason, then a concentration of public investment is well the most likely means of promoting local or immigrant industrial enterprise since, in these circumstances, it is bound to be much smaller. Similarly, if developments are planned at Bodmin and Launceston, possibly on a smaller scale, following the discussions which the local planning extherity have initiated with the Greater London Council, an essential part of the achiemes will be the introduction of an adequate level of new Industry

467. The Pymouth Area sub-dission exberses the employment suchange areas of Liakards-Loop, Gunnilalake, Plymouth-Devosport-Salsati, Yustock, Plymouth-Devosport-Salsati, Yustock, Plymouth and Kingsbidge, Willin these, ascini for Kropsbrige, in the Busil-western Devolopment Ass, and the Busilevest, Barmesgle and Illinocrobe engloyment exhange areas siredey fluctuation of the Charles of the Charles and Charles area which list between.

area whole lits between.

460. The Benot of Task's regional office as Beston has scal reaspensibility for inclementing the Government's distribution of industry polities in this Region. The distances of Blaston the South-vestem Dovelopment Area that the Control of the South-vestem Dovelopment Area in earlying to encourage employers to load view we would accordingly see development and we we would accordingly see development and we we would accordingly see development and we would accordingly see development and we we would accordingly see development and office in this post of the Region—after all office in this post of the Region—after all office in this post of the Region—after all prepared in the Seaton View accommend that the

459. Reference has been made in the provious chapter to the importance of overspill reception to the population of the south and west. In the South-western Development Area, the nostibility of an overspil scheme at Barnetscle-Bideford is being examined by the Devon County Council (paregraph 431) and the Cornwall County Council have initiated discussions with the Greater London Council about the scope for town development achimes at Combonie (paragreph 42B), Bodmin and Lounceston (paragraph 432). The prospects for self-supporting growth in the (enlarged) Development Asso, spreading from Plymouth are bound to be enhanced if the introduction of new population and new industrial development under such aphemes proves possible.

460. Quiside the Development Area, we have

sated the possibility of London oversoil externes at Swindon (paregraph 412), in the Shaftesbury area (paragraph 416) and neor Tiverton on the Exeter-Taunton routes (paracrash 431). We have also noted the local planning authorities' intention to study the tessibility of similar development at Honiton and at Exeter and the surrounding area (pereorsoh 431). The first two creas are at or near the borders of the South East Region. The others are on the M5/A38 route from the West Midlands (and, via the M4, from London) or on the A303/A30 route from London, All of them, therefore, have good prospects of attracting industry provided the decisions ere made soon enough to meet Greater London's needs and there should be no difficulties should lide's. As noted in paragraph 450, the provision of industry for overspell secention mass series second only to the Development

Areas in the granting of ide's.

461. For the rest of the Region outside the Development Area, Industrial distribution pallor should be directed to ensuring that the Region can make its proper contribution to national economic growth. The Council see a strong case for distinguishing between the more congested regions like the West Midlands and the South East on the one hand and regions such es the South West on the other hand which have room to grow. Heving established an up-to-date motorway system in the north and sest of the Region, the national economy carnot efford to weste the opportunities which have been greated. The Council regard the Severaide Study es a preliminary to deciding where development should take place, not whather it should take place; they take the letter to be self-evident

462. In other perts of the Region where there is occential for expansion on a smaller scale, industrial development policy should be directed to encouraging, not restraining, the efforts of local authorities and existing firms to achieve the expansion which is feasible and desirable. As has been emphasized earlier, a feeture of the Region is its many small towns which one the market and service centres for the rural life around them and which help to provide the variety of employment which a modern population demands-end without which it will move away. It is important for the economic life of the whole Region that these centres should be maintained and encouraged to develop. If a firm therein seeks to expand it is because, in contrast to an uncesy planting of new enterprise, it has shoody proved that it has roots and energy to grow. But for such firms, them would be meny more problem eress in the Region, and they should be encouraged to grow where they are, At the same time, the door should be open for new enterprises in these towns which would

ill make them less dependent upon the fortunes

463. One of the economic disadvantages of arred) towers and of areas with a comparatively small industrial population is the limited range within which training can be offered end experience gained by persons with a potential of skill. The situation is particularly pertinent to the new programmes of industrial training now being emberked upon throughout the country. Some industrial training boards are already promoting achiemes of group treining which are not necessarily confined to firms within a single industry. It is important that areas covered by such schemes should embeen small towns which would have difficulty In raising on adequate 'quorum' for group training on their own. The Council recommend that industrial training boards should give close attention to the needs of such sowns. The Council also recommend that more use be made of the oursi industries services which are evailable to small businesses (normally those employing not more than 20 skilled workers) in the rural areas and country towns of up to 10,000 possistion. They provide through the Rural Industries Bureau, e comprehensive service of advice and instruction, end, through the Russ Industries Loan Funds, credit facilities for workshops, equipment and working capital. The public image of these services is too often associated with traditional country creft industries, whereas their major work is now with a wide veriety of producer and viable servicing industries, perticularly those willing and able to develop their employing potential or to contribute directly, or indirectly, to exports.

464. It has been pointed out earlier that inclustry in the South West includes a wide range of advenced technology, end it is essential to encourage this element of the regional aconomy. In this connection, the future of the regional aircraft and aerospece industry is particularly important. The South West has, in the Bristol area and Yeovil, one of the country's major manufacturing complexes in the serospece and guided weapons industry involving a greet deal of advanced such policies, not only in serodynamics and engines but in many other varied disciplines. As well as providing a significant proportion of manufacturing employment in the Region, the influences of the industry's edvanced techniques spread widely to the benefit of other industrial activities in the South West. The Council urge the Government that, whatever the future of the country's aircraft industry as a whole may be, the capacity, skill and technological expertise which are currently represented in these regional aircraft and corospace activities should not be lost to the 465. While these modern science-based inclustries currently provide a reasonable proportion of the private research establishments of the country, the South West has few of the national research centres and industry research associations: these are mostly in the South East Region, or in the area where the industry concerned is concentrated. As far as the clinect services given by these establishments am concerned, their sitting may be of no importance but in areas which am otherwise short of such occupations, these research centres can be of great value by attracting young scientists and technologists and providing a stimulus to local control of advenced education. The Council hope that the Government will give full weight to the adventages which the South West can offer whenever the establishment of new nationally supported research centres is balno considered.

The holiday trades

466. As national income rises and with it the exercise standard of living, boliday excenditure can be expected to increase more than proportionately, not only by way of annual holidwa but also through the taking of second holidays, long week-ends, etc. At the same time, the numbers who can afford to take their summer holidays abroad will grow. The future of the holiday trades in the Region depends upon how those concerned react to these divergent trends. Up all now, the former has probably been the more powerful in that it has becaute streadly increasing numbers of holidaymakers to the South West. The letter has shown itself, however, in that the travel in the average income per head of the holidaymakers, and the level of their overage expenditire, has probably been decomposed expect at n few select resorts: the amoration of the tourist coach trade and the spread of carayan

sites are symptomatic. 467. More will be known of the holiday trades when the various research studies referred to in Chapter 7 are completed. In the long run. however, it is certain that, as far as the single summer holiday trade is concerned, the trend to holidays abroad will prevall; already these are sions of the number of mid-summer holidaymakers levelling off. For the incressingly affluent mass at the peak of the holiday season. the South West will be competing with the attractions of foreign resorts; neither in it likely that the inflow of foreign tourists will compensate in numbers. Thus, the future of the South West's holiday industry lies in making the most of the effects of efficience in increasing the numbers able and eager to take second holidays and long week-sorts are ligs those the laneth of time not wasted on travel is the first factor: hence the importance of speed of access, by air as well as by road and rail. The

second factor is the amenities which are

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available on anival, a range which is not met just by sun and sand, but must cater for all tastes and ell weathers. On land, a big effort to develop facilities for the enjoyment of Dertmoor and Exmoor National Parks is called for; on the see, increased apportunities for sailing and facilities for keaping boats; for the foreign visitor, probably a different pattern with an emphesis. If financially practicable on feetivals. The local authorities are mideo increasing attention to these guestions and the Council intend to esturn to them when the research studies are published. The Council welcome the efforts of the South West Trevel Association to unify tourist publicity in the area which it covers. We see considerable benefits from advertising the holiday facilities of the South West in terms of the Region as a whole, directed to the types of visitor the South West peeds to arreact 468. The arguments used by the Government

468. The arguments used by the Government in defence of the Billettin Billettin Billettin are a defiberate Givine for Innyling on service as a defiberate device for Innyling on service as a defiberate device for Innyling on service as a design of the Control of the Control of the Control of the Control of Control of the Control of Control

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Office activities 469. Further growth of offices in the South West must be an important element in the economic development of the Region, partiouterly in providing suitable jobs for women at present outside the labour force. Taking the Region as a whole, the outlook for employment growth in this sector is healthy, the more so if office controls are maintained in the more congested areas of the country. Unfortunately, growth is likely to be least rapid in Devon and Comwell where it is most needed. In spite of the reserves of female labour and the willingneen of staff to move to the area. Employees considering decentralisation from London need to be persuaded that the executableal position of this area is not an obstecle to auccessful operation but an aid to setisfactory menning

470. The two man disorbettages of the fet south and west appears are remotenate and the lack of the external concerning provided by an angle office owner. The first will become last a might office owner. The first will become last in contract the second of the contract of the contract

on autoality of Fymouth in considering the location for its decrematitate satisfialments. A11, Neowitehearding the needs of the south and west, some movement of offices into other para of the Register may be dissible on both national and local grounds. In particular, finded as the forest grown for many finding the first and the factors are "countre-manyers" to Landon for Glica developments; Swindom could also benefit, through a diversification of job opportunities, from some interprets in Grick and supply-

19 Investment Requirements

PART V THE REGION IN THE FUTURE (contrd.)

> 472. Growth of the regional economy Will carry with it a demand for a high level of investment, both public and private. In this chapter we consider the investment requirements for developing the infrastructure which will be needed if the Council's stretory for the Region is to be realised; and look briefly at the implications for the construction industries.

473. We concern ourselves here with communicetions, housing, energy and water. These are not the only fields where public investment must be directed, but, in the context of our regional strategy, they present the more immediate problems. The Council have not overlooked the fact that more and better achools, hospitals, town centres and so on will be needed to ceter for the growing population of the Region, as well as to overcome present deficiencies. It will be a continuing task for the Council to wetch that investment in these parts of the regional infrastructure matches the development meds of the South West.

Communications

Ports

474. Our strategy will call for planned investment in the Region's ports, an integral part of the regional infrastructure

475. There can be no question that investment in the Port of Bristol will be necessary. Chanter 9 has referred to the Port of Bristol Authority's imeginative scheme for a new dock system of Portbury. The Council asw the combination of the Portbury development and a spine road from Relatel to the fer south west as having the most immediate effects on soonomic growth and development throughout the Region as a whole Following the Government's mirection of the Portbury scheme, the Port of Bristol Authority, as elready noted, are now investigate ing alternative, more modest, means of develoning the Port of Bristol. The Council have noted the emphasis of the National Ports Council on the need for the Bristol port system to handle larger ships than Avonmouth is capable of handing, the alternetive being the slow

strengulation of this vigorous, bustling and

enterprising port. We see port development in the Upper Bristol Channel, and in permater at the Port of Bristol, as vital to the economy of the Region to courner the eastwords pull of European trade and European north and we will continue to unas upon the Government the importance of port investment in this area.

476. The Council have also noted with interest current proposals for developing Portland Harbour as a major doep-water correspond part. If feasible a project of this kind might been important adventores for the economy of the south-sout of the Region and the Council will keen closely in touch with developments

477. There are many smaller ports in the Region which have shown their cenerity to serve the specialist pends of their himsterds. The Council will be preferring in due course the adequates of the facilities at these arceller notes In relation to regional development plans. It some unlikely that the dealles in the count shipping trade of these ports noted in Chapter 9 will be reversed in the near future. Nevertheless, more specialised forms of coestal shipping are likely to grow, for example with the development of heavy-lift ships for the oscioce of abnormal loads, and hovercraft might increase the competitiveness of the coastal carrieds of freight, and nechans namenous ton-

47B. Outside the Region, further development at the Port of Southameter could have implied tions for the infrastructure of the South West. The National Ports Council's Interim Plan. while recognizing that consideration of mile long-term developments at Southempton would need to be postponed until the Government had taken a decision obout future development in the Southempton area, recommended some lamediate expansion of facilities at that port. The Government has now authorised the construction of an additional container barth, and is considering proposals for further berths. Suitable port facilities at Southampton might be as important for the south-east of our Region. and perhaps for the far south and west as the facilities on the reduced scale now implied for the Port of Bristol. We have had this cossibility in mind when reviewing the road programms for the Region (see below), but a decision for any major port expansion at Southempton would call for a reappressal of the priorities for the Region's road links with that erea.

Roads

479. It is clear from Chapter 9 that the road ayatem over much of the Region is quite unsuited to the needs of a modern economy. In perbauler, the inedequecies of most of the length of the A38/A30 Tewkesbury-Plymouth-Pargange route, the spine road of the Region, are plain to see. The more road systems are improved elsewhere in the country, the more heavily do the costly and time-consuming hauls out of the South West beer on the

Region's competitiveness.

480. The Government's motorways programme, due for completion in the early 1970s, and its programme of large trunk road improvemunts due to start in the period up to 1970. are shown in Figure 22. The Ministry of Trensport has recently ennounced the formation of a 'oungestion nool' for trunk mad schemes after 1970. Under this errangement, the preparation of a further tan large schemes in the Region is being put in hand, to be evallable for consideration when the programme for the early 1970s comes to be phased; the pool will be added to later in 1967.

481. The current road programmes will give some milef to the Region's trunk road system. but much will mmain to be done even when the achames in these programmes and in the present preparation pool have been completed.

482. By the end of 1871, the M5 will extend from the Midlands through Gloupestershire and across the Avon to Edithmend in Somersetthe north-easterly end of the regional spine road. Once the long stretch of motorway between Tormarton, on the eastern boundary of Gloucestershire, and Maldenheed has been built, the M4 with the Severn Bridge will relieve A4 and provide much improved communicitions to London and to South Weles. Thus, by the early 1970s M4 and M5 together will provide, via the lungtion of these two motorways at Almondsbury north of Bristol. first-class communications from the northern part of the Region to much of the rest of Britain. it is vital, however, that replacement or Improvement of the spine road southwards from Edithmend should also be provided with-

out delay. The Ministry has accepted in

principle the need to replace the present A38

by a new high-standard road southwards from

Edithmead to just south of Execut, a length

of about 56 miles. But, epart from the Cullomp-

ton by-pass, construction of which has lust

started, the Ministry does not envisage further

work on this new length of road, which would

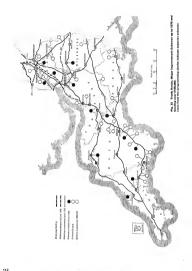
483. The Ministry also accords in principle that A38 between south of Exeter and Plymouth must be improved to dual-carriegeway stendards, with by-passes of towns as necessary, but only some 13 miles of this 36 miles length of road are due for modernisation under the programme up to 1970. The estimated cost of improving the remaining 23 miles is about £13 million. The extension of M5 to Edithmeed by the end of 1971 will make even worse the already over-loaded A38 to the south end the present serious congestion, particularly near Taunton and Exeter, will be accentuated. The replecement or improvement of the whole length of the A38 between Edithmend and Plymouth is thus of primary importance to the Region, improvements along the spine route west of Plymouth to Penzance are also necessary. In recent years substantial improvements have been made between the Tamar Bridge. Liskeerd and Dobwells (function with A390) and a by-pass of Liskoard is in the Ministry's current programme and due to start in 1969-70. No large-scale improvement schemes west of Sodmin have, however, yet been included in the Ministry's programme. The new preparation pool will contain four schemes totalling about 10 miles on the A38 between Exeter and Plymouth (Heldon Hill, Chudleigh by-pass, Blue Linhay Hill and (whirldge by-pass) and

cost some £50 million, before 1973 or 1974.

A30 west of Bodmin (Camborne by-pass, Reseworthy diversion). 484. Although A4 will be relieved by M4. heavy flows will still remain, particularly on the length in Somerset between Bath and Bristol. The Keynsham by-pass has recently been completed but improvements or by-passes to the east of this in Saltford, Bath and Betheaston are urgently required. (A Batheaston by-pess is included in the preparation pool.)

two schemes totalling about five miles on the

485. The direct trunk route to London from the traffic focal point of the south-westerly part of the Region, Eveter, is via A30 and A303 end, epert from the recently opened Honiton by-pass, is almost wholly unimproved. Although a route to London vie M5 (with its southwesterly extension mentioned above) and M4 will be only some 25 miles further from Exceen than via A30/A303 and some traffic will transfer to this route, the effect of the future M3 (London-Besingstoke motorway which will connect directly with the A30/A303 route) will encourage an opposite movement. The A30/A303 clearly requires modernising to dual carriageway stendards as soon as practicable; but the only large acheme so far programmed in the Region is the Amesbury by-pass in Witshire which is expected to start this year. This moote end the M4 will also, together with link mada around west and south London, be needed ted image digitised by the University of Southampton Library Digitisation Uni



for arross from the Region to the Channel Tunnel, due for completion about the mid-1970s.

ARR Although improved access to Cornwell is provided by the Ternar Sridge and the A38 writenings will help this still more, those latter ers not yet all programmed. In any event, the improvement of the more traditional route from Fowter (A30 vin Dknhempton, Laurosston and Bodesin) is also needed, especially as the present road in Devon is of very inferior standays few much of its length. Large-active improvement, with some by-passes, will ultimately be required and the most urgent needs lie between Exeter and Launceston. No large schemes have yet been carried out or programmed on this route in Devon and only one in Comwall.

487 The south coast trunk road A35/A31 (Heniten-Ayminster-Domhester-Wimborne) is havely trafficked and largely unimproved with bottleneoks at towns through which it reseas only one of which (Wmbome) is programmed for rollef. Dual carriagowers and possible. We have noted in Chapter 17 the South Fast sub-division's med for good permreunications with the north of the Region.

488. In general, the North Cornwall and North Deven trunk mad (439/4351/4358) is loss heavily trefficked except in the Barnstaple-Rideford area and near Tourston, Relief made in or near those towns are already moulred, as well as at other smaller towns where physical conditions are particularly bad. Chapter 17 auggests that the economic future of the Bodmin-Exmoor sub-division lies either in the establishment of a growth point in the Samstaple-Bideford area, supported by a substantial influx of population, or in a reliance on the shared benefits of a comparable developmont between Taunton and Exster. Those alternatives would lead to more traffic on one or other of the roads (A361 or A361/373) linking Bideford and Barnstaple with the

MS/A38 and require improvements therato. 489. In the north-eastern part of the Region, although the completion of the M4 and M5 will provide for north/south and east/west longdistance through traffic and will relieve certain existing trunk roads, a very considerable improvement programme is still necessary. Schomes exogrammed are the Amesbury bypess A303 (for 1967-68), the Dver by-pass A40 (1967-68), the Goldon Valley by-pass A40 (1967-68), the Circnoster by-pass A417 (1959-70) and the Common Hoad and Covingham Farm diversion on A419 (1968-59). The development of Swindon will add to the importance of A418 and will accelerate the need for by-passes at Stretton St. Margaret

by-passing Wvive and More have yet to find a

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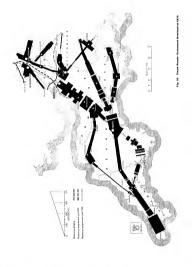
place in the programme. The Dvar by-nass on A40 should be extended to join the Barmwood by-pass and the latter should be adequately linked to Brockworth roundabout by an improvement to A417, (The Dwer by-pass extension and the link to Brackworth have now been included in the preparation pool.) Further east on A40, Andoversford and Northleach will require relief despite the draw-off to M4 which will take place. In Wiftshire, the Selisbury-Warminster road (A36) is backy in need of improvement but so far it has not proved possible to include any large scheme in

the programme 490. Flours 23 shows the extent to which the Ministry of Transport estimates that the truck road system is likely to be overloaded in 1970. allowing for the Improvements which will have been made by that date and taking account of the probable increase in treffic. Overload is the percentage by which the traffic on an average August day will exceed the free-flow design canacity of a road brying reasonably artisfactory alignment and lane width: it does not allow for the sub-standard conditions which apply on so many of the trunk roads in the extent of the improvement work still needing to be done after 1970 in eddition to that so fer programmed. Some relief of congestion will be obtained through the programme of smaller schemus which are generally designed either to form part of a future ultimate improvement or, as in other cases notably on A38, provide widening up to three-lane standards on some hilly or tortuous sections of the existing road pending its ralief by a motorway or other new road of high standard. These smaller schemes, however, affect a relatively small mileaco of road and can give only partial relief.

491. The exposition in the precading paragraphs of the Region's road requirements and of the Ministry of Transport's current plans for meeting these requirements clearly shows that the scale of investment at present envisaged in the trunk road system of the South West is quite Inedequate for the Region's needs. In particular, the Council must express their profound disastipfaction with the slow procress envisaged for construction of the regional spine road. The local authorities in the south and west part of the Region, through their Joint Committee for the South West, have been pressing for this road for many years. The report issued in 1965 by Associated Industrial Consultants Ltd., on the economy of the south west of the Region, which was commissioned by the Government and the Joint Committee together, elso atressed the urgent need for the road. At an early stage of the Council's work, we accepted the Joint Committee's and Cricklede, Dn A303, schemes prepared for view that the greatest need in the scoromic

planning of their eres-Corrwell, Devon-

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114 Period impact distribution by the University of Seuthameter Library Netfortion Dorast and Somersot—was for a spine road of adequate stendard running from the end of the MS in Somerset to Penzance. We undertook to seek the settling of a phased programme for the road to be constructed to an adequate stendard by 1975.

492, It is now evident from peragraphs 482 and 483 that, under the Ministry of Transport's present plans, this objective will not be aghioved. By the end of 1971, we shall have the M5 extension to Edithmend in Somerset. On the proposed new road between Edithmead and Exeter, only the Cullompton by-pass will have been built by 1975 and, possibly, a start made on one or two other sections. We may assume that 13 miles of the 36 mile stretch between Exeter and Plymouth will have dual carriageways by 1975, but, although preparetion work is going shead on achemis covering a further 10 miles, no dates have yet been set for improvement of the remaining 23 miles. West of Phynouth, although the Camborne by-pass and Roseworthy diversion are to be prepared, we have the firm promise only of the Liskoard by-pass.

463. The Countel recognise the many competing demends for investment in the country's reads. But we believe that the economic and scole intern to be expected from a spins road in the South West justifies promy for the adocation of funds for it. It hen not been demonstead to us then there are any physical spins road in the internal which we, as a Countel, confirmed to the Joint Committee. We therefore may the Government to expert in sompletion may the Government to expert in sompletion.

494. While the spine road is the first priority.

there must also be investment in improverments to many other roads if the Region is to have a soliditory min of growth and opportunities are not to be wasted. The sequierrants set out in paragraphs 484–489 set the minimum needs, and accord with the pattern of growth in the South Wast, which the Council are recommending.

465. Developments outside the Region may recorder zero red niquiarrants. For example, secention in the Southamston-Pertament man, se on outsome of the South Hampshie Study or developments in the port of Southamston, may be considered to the South the Region's links with that area. In the determination of profress, however, we shall with the distinguish between deditions to the programme velocities are to the based of the Region's southern of the Control of the Region of the

the roads which are the responsibility of the

local euthorities. 497. Although much has been done, towns in the Region in common with towns throughout the country, are facing ingressed traffic concastion, the problem being perioularly equipin the larger centres. The smaller towns suffer too in varying degrees. With the expected doubling of the number of vehicles on the roads over the next 13 or 14 years, conditions are bound to get worse upless drastic action as taken. Much planning has already been done in the larger towns and treasportation surveys have been or are being parried out so that more effective road austerns can be devised. It is clear, however, that the scale of expenditure involved is such that the problem papers he splied by road improvements alone; staffin management techniques to secure the better use of made in towns need to be exploited to

498. Recent improvements carried out to clossified roads in rurel areas have been introde to smaller schemes generally peoviding increased visibility and dealing with bottle-mocks and accident 'block-spots'. Much work semalina to be done and further development of some routes as links with the motorway and trunk road system is needed.

Reilweys

489. The continuing loss of treffic by the realways to the reads it a perfectivity unfortunate ways to the reads it a perfectivity unfortunate south West, which has the heritage of a better all network than a road system. The Court all network than a road system. The Court is that silvey services which are no longer cannot be maintended inferthetily the difficulty is that silvey services which are no longer fully used een be closed down very quishly, whereas to get the modern roads to replace them takes years.

500. The Council were consulted about the proposed basic reil network for the country referred to in Chapter 9 and now published in the report British Rollways Network for Development*. This is the basic rail pattern for the South West to which the Region's road system must be released in the future. The Council welcome the fact that, compared with the Beaching mahaping proposals, the new network will retain such lines of importance to this Region as, for example, those from Taunton to Rending via Westbury, from Salisbury to Exeter and on to Okehempton and Bemataple, from Bristol to Waymouth via Westbury and Yeovil. and the line in the far south west from Plymouth to Penzange. The Council will be consulted by the Minister of Transport before decisions are taken on the existing passenger branch lines

496. Outside the trunk road system, there are also road problems in the University of Southernpton Cotton (V Digits 68 th Digits and 1997).

listed in paragraph 250, whose future is still to remain of vital importance to the areas which they serve until such time es the road links have will press for retention of the reli services at least until the deficiencies of the road system have been made good.

Airports 501. Plenned investment in airport provision in the South West must take into account that no civil airport in this Region can expect to be self-supporting in the initial stages of operation; neither of the two major airports hero-Bristol (Lulegate) and Execut-mosts its costs from civil aviation revenues. Most towns and cities in the United Kingdom with a population of more than 150,000 have ready access to airports which are operated either by a city or by e consortium of local interests. These have been built as an act of faith in the growing part eir trensport will play in inter-city and mediumrange European communications in the future. 502. Against this background, the Council see the future development of air communications. in the Region centring mainly on two subregional airports, in the north and south-west We discuss below possible locations for these sub-regional airports. Outside these, the people living in the seatern proce of the Region have the benefit of the services operated from the airports at Heathrow, Glouposter, Bournamouth and Southempton. in Comwell, the civil establishment at the RAF perodrome at St. Mawgen is available for local needs, eithough there appears acope for improvement of the services operated from there, perticularly for holider treffic. In North Dever, some civil flights operate from the RAF aerodrome es

Chiveror. 503. In the north-cost of the Region, the airport at Bristol (Luisgate) at present serves subregional needs. A question for the future, which the Council will keep under mylew. Is whother Luispate, south of the Avon, will still be the right location in the light of expected or nessible developments in our Northern sub-region and in the area westwerd now linked by the Severn Bridge. For example, proposals for mejor expension on Severnside beyond that implicit in the population forecasts in Chapter 16 would call for a recopraisal of the simport facilities available in this pert of the Region. This is an aspect which the Severnside Study will need to consider. Even so, Luisgate is, end in any event will be for a number of years, the only adequate subregional airport serving the Bristol-Giguposter-Somerset area

504. In the south and west, there is an outstanding need to provide adequate air communications for Plymouth, one of the very few lerge towns in the country which is more than Printed image digitised by the University of Southempton Library Digitisation Unit

16 miles from an airport offering public air transport services. Plymouth City Council house been seaking for many years, without success, a site for a modern airport in the vicinity of the cay. With this situation in mind, we have undertaken an investigation with the full co-operation of the local authorities concerned into the question of providing a sub-regional airport for the south west

805. The local authorities concerned are no problems in Comwall and North Davon where as already noted, civil fedifities are available at RAF St. Mawgen and RAF Chivenor, This leaves the South Devon area-Exeter, Torbay and Phymouth. The consensus of the arline operators is that regular services with large aircraft can be operated from one aircost only in this area. Accordingly, the Council consider. and this view is endorsed by the local authorrities, that the needs of the area domand a subregional airport, as offering the best prospect of providing the standard of services which is desirable. On this basis, two choices are open that of developing Exeter alread to serve Plymouth; or that of building a new elepan midway between Exeter and Plymouth. Each of these choices posits major improvements to the A38 road. The Council have therefore asked the Government and the local authorities concorned to contribute to the cost of a survey to establish first whether a site for an alternative to Exeter airport exists, and then to ascertain the costs of constructing, maintaining and coenting a sub-regional airport on the new site-if it can be found-and the comparable costs of similar development at Easter.

Housing

508. It is not easy to forecast the Region's future housing mayirements, and the estimates which follow are tentative enty and about not be regarded as more than indications of land magritude.

507. Chapter 13 suggests that the Region is at present short of about 10,000 dwellings. It also calculates that between 100,000 and 200,000 of the dwellings in the existing housing stock may need to be replaced or improved by 1981. The future growth in households in the Region may entall a need for 187,000 new dwillings between 1965 and 1981; this estimate is based on the Council's views about future population transis and on the Ministry of Housing and Local Government's assumptions about future rates of bousehold formation. As hes been pointed out in Chapter 16, the Council's forecasts of the population in the Region in 1981 exclude possible population growth as a result of planned overspill schemes. or of meior new development in the north of the Region as a consequence of the Savernside Study, Similarly, this estimeto of the new houses required for increesed population excludes any needs which will arise for the reception of people from other parts of the country under such schemes.

such sections.

ORL Thus, excluding possible requirements under pleased development under pleased under plea

allocated by the local planning authorities for brouding purposes, together with the land which they consider withhalf for housing but have not yet monds, appears to be mulgibly in balance with regional needs up to 1981 as estimated above. The local planning subhorities envisage that the bulk of future requirements with the provision of new land not sit present in residential use. Only about a sloah of the needs will be mat by development and other than the proportion of the properties of the needs will be mat by development and properties of the properties of the properties of the division.

509. Over the Region as a whole, the land now

510. Naturally, there are arross where available lend and estimated future housing seeds not absolutely matched. But, while local problems may else, returns submitted by the local problems may else, returns submitted by the local planning submitted in the submitted in the local planning submitted in the submitted in the submitted in the local planning submitted submitted submitte

amount that may be needed. At the other autreme, in the Central sub-motion, particularly in the South East sub-division, them is some doubt as to whether them will be sufficient land. The North Gloucestreshire sub-division appears to be in approximate belance, and there seems a sufficient sumlus of land in the other sub-divisions. The belance sheet would peed to be looked at again, however, if future policy decisions at national and regional level resulted in any substantial change in the size and distribution of the regional population as forecast by the Council-for example in the once overspill population from other parts of the country. In any case, the local planning authorities will need to ensure that the right kind of land can be made available in the right places at the right time. There may also be special problems, for example, the preservation of countryside, agricultural land and coastine from sporadic and westeful development. But within the broad agree of the Region there is no general problem of shortage of building land and probably few difficulties in perticular areas which cannot be solved by the normal process of land use planning.

B11. A maximum programme of about 400,000 mem dealings up to 1885 appears to be well within regional resources. If the nate of house building actives in recent years to the combined of this of the combined of the combined

modate major planned overspill schemes.

512. A question for the future will be the part
to be played by local authorities on the one
hand and private enterprise on the other in
meeting regional housing needs. In 1981–66,

TABLE 42 Number of new dwellings required, 1965-81

Acea	Computed chartege of dwallings 1995	New houses required for bounehold growth 1905-61*	Range of new : houses required for replacement need 1985–81	Renge of total housing need (including allowance for vecenties) 1965–61
1	2	3	4	5
SOUTH WEST	101	187-0	100-200	306 0-403 0
Northern Censul Southern Western	45 31 25	101-6 47-6 30-9 6-9	34- 68 24- 48 19- 38 23- 46	144 3-179 3 76 9-101 7 54-0- 73-5 30 8- 54-5

Library 2 or empand by advanting the 1968 housing nock in each size from the electron as comhousing suppless is even tree (i.e. excess of booding stock ever presented household) we evaluate from Colon Wedgelde Printed image distillised by the University of Southampton Library Distillisation Unit private errorprise built about those dwellings to every one completed by local authorities, and over two-thirds of the Region's house-building missiones are at present devoted to providing buildings for sale. How does this square up with future needs? There are indications that in some parts of the Region the stock of council housing is already big enough to meet the demand for family accommodation to rent, although few authorities can claim that they have enough housing suitable for and within the means of the elderly. Moreover, it will remain important for local authorities to provide houses for key workers if they wish to amount new industry and support existing industry in their greas, possibly in conflict with the requirements of people larger established in those

Energy

513. The future development of the Region to which the Council are looking should meet no insuperable problems of energy supply.

514. The present domand for primary faals cool and oil—is below the feed of supplies available to the Region. Demand for cool will surely commune to consuct. The extensions planned to the oil reflexes which sever the South. West will give the Region an extra manney adoquate for any foreseable increases in

the demand for transport and fuel oils. 515. Growth of the regional economy will call for increased investment in the production of the secondary fuels, electricity and gas. The expension plans of the electricity suppliers described in Chapter 10 mean that the Region can look forward little more than five years hance to an electricity generating capacity which will be close on twice the present massmum regional demend. The extensions plenned to regional gas-making plants will, before 1970, ensure a regional supply more than double the current level of demend. The Region also has the prospect of sizeable supplies of natural gas from the Ges Council's national grid. There will certainly be further expansion of electricity end gas supply fecilities after 1970 as the area boards move forward their estimetes of future

demand.

316. It is not possible at this stage to questify what affect the Council's proposals will have no future demand of advantage and que. But the continues demand of advantage and que. But the continues demand of a for exercision of a form of the exercision of the exercisio

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are broadly in keeping with future regional needs.

\$17. There will, of course, be impensary per blome to be stolked. For example, it will some times be incessery to reconsist the med to counted intering supplies with the nided to counted intering supplies with the nided to counted intering supplies with the nided to recommend the supplies of the supplies of the nided to reduce the counter of the supplies which will call for addorders of the supplies which will call for suddening the nided to the supplies which will call for suddening the nided to the supplies with the supplies of the su

Water

518. In contrast to many other parts of Greek Refacils, water supply propessed row major pro-blem in the South West row and, assuring a future prosition of the size and distribution forecast in Chapter 10, and the industrible of the size and property in our window schrönic distributions are expected in the future. The event of the contrast of the importance in accordance to the importance in accordance to the distribution of the importance in accordance to the contrast of the importance in the size distribution of the importance in the Region.

619. The main problems are those of distribution, because of the nature of the terrain. The available water is not olivery found in the valley in which demend arises, Sobernee have to be devised for transfer of water from oraniver outchment arise so asother. Generally, settlement arise to asother, denerally, astember ser in head to adequate the position until about 1981, and the river outborries are verticed on suppose for the incorre terrain on suppose for the incorre terrain.

520. The most critical areas are those of Bristol Waterworks Company and North West Gloucestershire Water Board in the north, Swindon Berough Council in the east and North Devon Water Roard in the west. The two northern undertakings are looking to the extension of the Clyworlon regulation reservoir scheme for supplies up to 1981 and are investigating the feasibility of additional supplies from the Bristol Avon, the Severn and the Wve for their further needs up to the and of the certury. Swindon is relying on development of further bomboles in the chalk in the Kennet velley for the immediate additional supply if the New Town is developed, with perhaps future claims for additional water from the Seven area. North Devon is miving on the water from en impounding reservoir to satisfy demands up to 1981 and is waiting now for a decision from Parliament on its Meldon Reservoir scheme.

521. The Water Resources Board has the task
of advising the Government on netional water
policy. The Council will go-operate closely

with both the Board and the regional river authorities on metters of water supply in the South West.

Construction industries

522. The capacity of the regional construction inductine for moreing the future needs of the South West connect be assessed until those needs are more procisely determined. At possent, housing accounts for over helf the damend for new building, but the implication of the forecasts above is that regional housing requirements in 1981 may be artistic less than the outern rete of house building. On the other hand, it is clear that the realisation of the Councils surrougy for the Repair will agent on the continues of the Council of the Council of the continues of the Council of the Council of the surrough council of the Council of the surrough council of surrough co

20 Summary of the Council's Views and Recommendations

PART VI SUMMARY

523. We summerise here our conclusions, set out in Chapter 17, 18 and 19, about a strategy for the development of the South West about regional economic politics, and about the seventment requirements for the regional infer-security.

A Strategy for the Region 524. The Region dh/das roughly into two halvest our Nonham and Gestral sub-regions, comprising the counties of Goureetenshire, Bristel, Withsite, Dentet and Somerset (except few West Somwest), and our Southern and Western sub-regions, comprising the counties of Conswill and Devon and West Somerset, Each half requires very different treatment.

Northern and Central sub-regions 625. The natural economic growth potential of the north and east of the Region south on be irrepeted by over-rigorous restraints on development or by failure to provide the infrastructure—communications, housing and public services—necessity to support that

Pares, 397-405.

528. These must be proper physical planning of the future growth, to evoid compassion problems and bead amentary, Para, 407.

527. The scale and pattern of future growth in the Northern sub-region cannot be assessed before the completion of the Governmental Sexventide Study and of the Port of Brizale Sexventide Study and of the Port of Brizale Authority's investigation, following the right-on of the Postagory school, or light processing ways.

of developing the Port of Bristol. The Council

connot, therefore, yet make comprehensive

proposals for a development strategy for the

Northern aub-region, Clearly, however, pres-

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sure of development will be particularly intense. whatever the findings of these investigations may be. We doubt whether the present development policies of the local authorities concerned will be adequate for expansion of the note: we foresee without risk to the amenities of the area. Accordingly, we suggest that the Government and local authorities should explore, either in the context of the Sevenside Study or by means of a constate study alternative methods of development encompassing the area of Bristol, Bath, South Gloupestershire, North Somerset and West Witshire, designed to profit from the new motorway system and to build up, by the sed of the pentury, a row complex of settlements of major importance.

Paras. 408-410.

528. The problem areas of the Northern subregion, notably the Forest of Dean and perts of the Cotswolds, may need further examina-

tion. Para, 411.
529. The Council support the Government's proposal for the feether planned expansion of Swindon under the Town Development Act. with a planned intake of 75,000 people by 1991. Para, 412.

530. In the Central sub-segioe, the Welfresterwesterny sub-rivine stands to benefit from the leftscares of growth in the Nesthern subregion and the South East sub-rivine from growth in the South East Region starring outtine to Council will examine further the prospects of the zerons and villeges of the Wellington-Wessbury sub-division when the Wellington-Wessbury sub-division when the the South East sub-division, insepsted devicement should be concentrated at a limited matter of place; including Pools the Yeard

area and the Weymouth-Dorchester area, to

avoid interfering with opticultate and to encourage tourism. The Council velocities the excells by some local eathernias of the feasibility of planned London ownpill shitmes, which may give a councile population base for the local economy in some areas. In periodic, we august that the local authorities concerned consider the possibility of a planned development in the Yandf-lichister east. Pags. 476.

Southern and Western sub-regions 531, Special measures will be needed to establish and maintain the economic viability of the Southern and Western sub-regions

White agriculture and the holiday trades must consinue to be staple parts of the economy of the south end west of the Region, they see not a sufficient base for future growth. A balance of industry is necessery to bring about stability. Pages, 418–419.

532. Improved communications alone will not do more than mitigate the aconomic problems of the south and west. We consider a major effort is called for to stimulate economic growth in places where a momentum of growth could be sustained such as would serve the needs of e wide surrounding erea. Parez, 420-421. 533. We consider that such effort must start from Plymouth, the one town lerge enough to stand compersion with urban centres elsewhere which serve as foci for the aconomic and social life of the communities around them. with inherent potentialities for sound economic growth, and already an attractive location for inclustry despite its remoteness. We recommend that a primary aim of regional planning policies in the south and wast should be to diversify the employment structure in Plymouth and some of the nearby small towns. There should be a clear programme for phasing in new and expanding industries with a physing out of Plymouth's present dependence on Devenment Dockyard. Some special measures to bring in new workers may be needed initially to stimus lets this process, and Plymouth City Council's study of the feasibility of a London overspill

scheme should have this objective. Paras. 422— 425.
134. All the far acush west stands to banefit from a development of Plymouth as envisaged by the Council. Consideration should therefore be given to thow best the local authorities concerned can co-operate to this end. Para. 439.

535. Given large-scale economic buoyency at Plymouth, the West Comwall sub-division, which is part of the South-vestern Development Area, should be able to estiract complement Area, should be able to estiract complementarity developments. We moormend that the Government continue to make every effort to material and estand the number of jobs in the reca. Prin. 427. 538. At the same time, West Cornwell needs a focal point for essential enrices and subural and spoul amenities. We recommend that the local surhorities concented put in hand upgestly a study of the possibilities for development to this end in the Tuno-Cambonne-Talmouth traingle, licituding the measures needed to secure additional population and employment in the traingle, Park 428.

837. The Council will need to give closer consideration at a future does to the economy of the lists of Solly, which are almost exclusively dependent upon horizulture and the holiday trades as sources of livelihood. Pars. 429.

\$38. The Estata-Tockey sub-division would benefit from industried development to the north and sast of Estata swell as at Plymouth. The local planning sub-drise accomend are studying the fessibility of a planned counsell state of the sub-drive in the Twenton resp. between Estata and Tauraron, end intend to study similarly the Honnon and Estate rens. The Council hope these studies will yield positive results which will show he under quickly that section. Pass;

539. The part of the Region with the least fevourable prospects for self-austaining growth is our Bodmin-Exmoor sub-division (North Contwell, North Devon, West Somenast). At the western end, the local planning authority are considering the possibilities of London overstrill schemes at Lauroeston and Bodmin On the northern coast, the Barnsteple-Bideford area would require a substantial population influx to make the area capable of self-sustaining growth and Davon County Council are undertaking a study of the possibility of a planned London overspill scheme. Even if it proves feasible to develop the Bernstaple-Bideford area as a sizasble growth point, regional aconomic priorities might conceivably be better served by development within the Teunton-Exeter-Horston triangle, backed by adequate road works between the northern coast and these centres. Pares. 432-433.

\$40. Accordingly, the Council limits urgent discussion of these choices for the future shape of the oconomies of the Southern and Western sub-regions. The Council liminat for call upon the local planning authorities and regional inferests concerned to work out a co-operative undertaking to make the most immediate use of the studies move in hand end to see what farther local effort is required and may be been countried. Plan. All of the countries of the studies are the studies and the studies of the studies are what farther local effort is required and may be been countried. Plan. All of the studies are successful.

Regional Economic Policy Agriculture and horticulture

541. Radical changes in farm structure will be plon Library Digitisation Unit needed, sepecially in the far west, if the flegionst Farm Is to make it full constitution to netional growth. We therefore support the powisions of the Agriculture Act 1987, for financial incessives for amolgametion of holdsings and for improving the productivity of hill ferms. Pless. 436.

G42. We estimate that the present disportly between availage gross output per holding in Devron and Committle that one hand and the other four countries of the Region on the other hand will widely underse remedial action is taken. We are therefore making further attacks of the problems of agriculture and hortisutrure in the Region. Press. 4377–439.

543. Meantime, to strengthen the competitiveness of the industry in Devon and Comwell we have already recommended:

a that the Minister of Agriculture should invite the Milk Markating Board to supment their low out production advisory service to milk produces in Devon and Contwell. The Minister has agreed that implementation of this recommendation

will be of material bewalf to misk producters in the Region. Pars. 489;

5 this steps should be sixen to keep sheesat of benfastors enablating and production of benfastors and production to the steps of the step of the steps of the step of the

Pera. 440.

544. The hortisulture industry in the far south and wast is handleapped by remoteness from as merkets; this rainforces our case for a seginal signer rout in view of the Vital ideam-stance of growers in the Solfly Islae on their kins with the minimal and non inter-lessed transport, we are concerned at suggestions that these services may be required. Pure. 447.

545. We have invited the Agricultural Training Board to consider the Region's training needs. Para, 442.

546. We propose to study further the part which farmers and growers can play in developing the tourist ettractions of the Region. Pars. 443.

Menufacturing 547. The Council recommend that Physicists

and its surrounding ana—our Plymouth Area sub-division except for the Kingsbridge employment exchange asses—should be included in the South-western Davelopment Area. This is a logical consequence of our scommendation that Plymouth should be developed to serve as a focal point for self-sussising scenario growth is the south and west of the Region. The Ostahraption employment exchange was, educate to the Plymouth Area sub-drivion, should also be included, Paras, 452–455 and 457.

548. West Commall is sheady within the South-vestion Development. Area, Author.

out of the study we have recommended of the growth potential of the Truro-Carobone-Falmouth triangle, we expect the Government to intensity is efforts to induce suitable misrefecturing films to set up establishments in West Comwall; concentration on the triangle should not, however, rule out other locations. Pres. 456.

549. In our Bodmin-Eemoor sub-divisior, any substantial population intake in the Bernstaple-Biselect ene, or planned expasion scharries at Bodmin or Lounceston, possibly on a smiller scale, w'ill demand the introduction of new industry on a scale sufficient for the naw lavels of population. Pare, 466.

880. We recommend that the Government should investigate the possibility of establishing a Board of Trade sub-regional office in Boater or Plymouth to facilities the Board's task of encouraging employers to locate new factories in the far each water. Pers. 459.

551. The prospects for self-supporting growth
in the (misrged) South-western Development
Area are bound to be shareed if the istroduction of new population and new industrial
daviogeneru under planned overspill schemes
of the kind now being investigated by the local
planning subporting proves possible. Pew. 456.

552. Outside the South-western Development Aves, possible London overspill schemes at Svindon, in the Sheribectury eas, nere Tiventon, at Honton, and in the Exces area, would have good prospects of attracting industry provided decisions were mode soon anough to meet Gratter London's needs. Pars. 460.

553. For the rest of the Region outside the South-Western Development Area, industrial distribution policy should be directed to enturing that the Region can contribute properly to national economic growth. We see a stong case for distinguishing batteron.

property to rational economic growth, we see a strong case for distinguishing between regions like the South West with noom to grow and the more congested regions. Park. 461. 564. The many small towns which serve of

centres for the stees around them should be maintained and encouraged to develop. Existing firms in such towns should be encouraged to grow where they are, and the door should also be open for new enterprises. Pars. 462.

555. We recommend that industrial training

hands should give close attention to the raining needs of small towns in the Region, and that more use be made of the rurel industries services available through the Bural Industries Bureau and the Rural Industries

Last Funds, Para 463. rais. Whetever the future of the country's signaft industry as a whole may be, we uron the Government that the capacity, skill and rechnological expertise of the regional averaft and acrospace industries should not be lost to

the Region, Para, 464, 127. We hope the Government will give full weight to the adventages of the Region as a location for one new nationally-supported

moreoch essociations, Para, 465. of the holiday trades of the Region when the

The holiday trades 126. The Council will study further the future

waits of current research investigations are available, Peras, 466-467. IES. We see a case for relief from the Selective Employment Tax on services in respect of edety persons and part-time workers, who en an important element in hotel and catering employment in the Region, Pare, 468

Office activities

SEC. We consider that around of needed office employment in Depon and Correctl lies in the development of Plymouth as an office centre. We therefore recommend that the Government Plymouth when considering locations for its decentralised establishments. Some movement of offices into the north end cest of the Region. particularly Bristol and Swindon, may also be desirable on both national and local grounds. Page 480_471

Investment Requirements Ports

561. The Council will continue to urge on the Government the importance of port investment in the Upper Bristol Channel, particularly at the Port of Bristol. We will keep closely in touch with current proposals for developing Portand Harbour as a major commercial port. and will review in due course the adequacy of the facilities at the smaller ports of the Region in relation to regional development piens, Peres 474-477.

Roads 562. The road system over much of the Region

is quite unsuited to the needs of a modern economy. In perticular, there is urgent need for the early construction of a 'spine roed' of adequate standard running from the end of the MS in Somerset to Plymouth and Penzance. The Government's current motorways and large trunk road improvements programmes ted image digitised by the University of Souths

will give some relief to the Region's trunk roed system, but much will remain to be done even when the schemes in these programmes and in the present 'preparation pool' have been completed, Pares, 479-490

563. At an early stage of the Council's work we undertook to seek the settling of a phesed programme for a regional spine road to be constructed to an adequate standard by 1975, It is now evident that the Ministry of Transport's present plens will not achieve this objective. We believe that the economic and social return to be expected from a spine road justifies priority for the allocation of funds for it. We therefore urge the Government to ensure the completion of an adequate spine road by 1975; we are ewere of no physical or

technical berriers to this. Parse, 497-493, 564. The spine road is the first priority, but there must also be investment in improvements to many other trunk roads in the Region. Para 494

Railways 565. The Council eccept the report on the basic rail network published by the Ministry of Transport and the British Reliverys Board in Merch 1967 as the rollway pattorn for the South West to which the Region's road system must be related in the future. At the same time, some of the existing passenger branch lines which are not included in the basic network will remain of vital importance to the areas they serve until the road links have been improved, and, in these page, the Council will press for retention of the reil services et least until deficiencies of the road system have been made good. Paraz, 499-500.

SEG. The Council see future development of regional air services centring mainly on two sub-regional airports. In the north and in the south and west. In the north, we will keep under review the suitability of Bristol (Lulsgate) Arrort as the location for the sub-majoral sirport in the light of expected or possible developments in our Northarn sub-region. In the south end west, having regard to the outstanding need to provide edequate are communications for Plymouth, two choices for a sub-regional airport are open-that of developing Exeter Airport to serve Plymouth or that of building a new sirport midway between Exster and Plymouth, The Council have therefore asked the Government and local authorities concerned to contribute to the cost of a survey aimed at establishing the feasibility and merits of these atternedive choices. Parks. NO1-505.

Housing 567. The future housing needs of the Region as estimated by the Council appear to be well within regional resource. Particular problems, which may arise in some areas, for example, housing land availability, preservation of the Region's apricultural land assamifies, seem capable of solution by the normal land use planning processes, Pars., 566–512.

Energy

588. The Council foresee no insuperable problems of energy supply, Growth of the regional economy will demand increased investment in the production of electricity and gas, and the investment plans of the

electricity and gas suppliers are broadly in line with foure regional needs. We will continue to discuss with the area electricity and gas boards which serve the Region the means of ensuring a belance between future supply and demand. Pavas. 613–617.

Water

569. Water supply is not expected to present major technical difficulties in the future. The Council will oc-operate closely with the Water Resources Board and segional river authorities on motions of water supply in the South West, Pares. 518–521.

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27 Housing need and land availability, 1965-81

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South West Economic Planning Region: sub-regions and sub-divisions

Sub-region/ sub-division	Expression to sell-authority areas	Nearest equivalent Ministry of Labour areas
Northern sub-region		
North Gloucesters have sub-division	Rund Districts: Chathenham; Cisencester; Dundey; Sest Open; Gloucester; Lydney; Nevent; North Cotawold; Hottkinsch; Stroud; Tethory; West Dank.	Cheltenham; Claderland Group (Cinderland Lydney); Clancester; Coleford; Quality; Gloucester; Stroud; Temicrobery.
	Urban Dutricts: Cherkon Kings; Crenosser; Nellyworth; Stroot.	
	Municipal Boxcaghe: Cheftenham; Tewkedyay.	
	County Borough: Gloucester.	
Bristol-Savetra side auto-disvoloni	Runi Districts: Asbridge, Bethavon; Olution; Long Ashon; Bodbury; Thorsbury; Wessley.	Beth; Bristol Group (Bristol, Avenment), Kingswood, Weetsury-on-Trym); Chipping
	Urban Districts: Clovedon: Keynsham; Kingswood; Mangotsheid; Norton Radetock; Portisioned.	Bodhery: Clevedon; Keysahem; Medsoner Norton; Waston-super-Mine.
	Manicipal Borough : Western-super-Mare.	
	County Boroughs: Beth; Bristol.	
North Witshire sub-division	Rend Districts: Bradford & Malkaher; Colore & Chipperchart; Decklade & Wootton Bessett; Devises; Highworth; Makrestuny; Medistrough & Renssury; Pensey.	Chippenhers; Dovins; Hewthon; Malmesbury; Melishers; Dwindon; Trovbridge.
	Urben Districts: Bredford-on-Avon; Mellahore; Trowbedge.	
	Municipal Boroughs: Calne; Chippenhen; Devices; Malmedyary; Morkstrough; Swindon.	
Central sub-region		
Wellington - Westkay sub-glyinton	Runi Districts: Bridgwetz: Frome; Shepton Mailet; Teurson; Wormester & Westbury; Wellington; Wells.	Bridgwater; Burnhem-on-See; Frome; Shepton Mollet; Street; Teunton;
	Urben Districts : Buncherty-on-Ges ; Frome ; Shepton Mellet ; Street ; Westweater ; Wellington ; Westbury.	Werninster.
	Manicipel Boroughel Bridgewater, Glestonbury; Tauston; Wells.	
South East nat-dixmon	Baral Olatifeti i Amedrany; Beesinater; Blendford; Brigont, Chard; Oorohester; Langport; Mare & Tisbury; Safiskay & Wilton; Shirleskury; Sherkone; Shamisater; Weehlan & Furbs ki, Wireborns & Crenborns; Weenlan & Teack; Wireborns & Crenborns;	Blandford; Bridgert; Chand; Docchester; Selebury; Sheftsebury; Sherberte; Swirnige; Wassham; Wyrmouth; Wintsorne; Yeoul Group (Yesvil, Convisions); (Pools 1)
	Urben Districts Creaturne ; Berinster ; Portland ; Sherborne , Swenege ; Wimbone Minster.	
	Municipal Biologija; Blandfold Fotan; Bridgert; Chard; Derchetter; Lyne Regis; Poole; Selebury; Statesbury; Western; Wayrecith & Melcombe Regis; Wilton; Yeory).	

Sub-eiglan/ sub-division	Equivalent local authority areas	Nearest equivalent Wintery of Lebour areas
Southern aub-region		
Easter-Torbay sub-chilson	Rami Dasticts: Asminster; Crediton; Honiton; Newton Abbot; St. Thomas; Therion; Totres. Urban Districts: Ashburton; Brisham; Busidestieich;	Ashbotom, Asminster; Bovey Treey; Brickers; Callergeon, Destrouth; Botter; Exercuth; Heriton; Newton Abbet Prigning; Seeten; Treambouth;
	Budleigh Seltenton; Crediton; Dewish; Exmouth; Newton Abbot; Ottery St. Mary; Paignton; Seston; Sidmouth; Teignmouth.	Treaton: Torquey; Totaes.
	Municipal Boroughs: Dertmouth; Heriton: Tiveton; Torquey; Totass.	
	County Borough : Easter.	
Physouth Area aub-division	Rural Districts: Kingebridge; Liskeard, Plympton St. Mary; St. Germans; Tevestock.	Gunninks; Kingshridge: Liskeed Group (Liskeed, Loos); Plymouth Group (Plymouth, Dayorsont, Seltesh);
	Urben Districts: Kingsbridge: Looe; Selsombe: Torpoint.	Plympton ; Tevistock.
	Municipal Boroughs: Liskword; Seltosh.	
	County Borough: Plymouth.	
Western sub-region		
West Contwell pub-division	Rural Districts: Kernler; St. Australl; Truro; West Perswith.	Camborne Group (Camborne, Redruth); Februarth: Helaton : Newpowy Group
sus-orwisen	Urben Districts: Cambonne-Rednish; Newquey; St. Austoli: St. Just.	(Newguey, Persence (Newguey Group (Persence Group (Persence, St. Nes, St. Mery's); St. Auste 1: Trum.
	Municipal Boroughs: Falmouth; Fowey; Helson; Lostwittiel; Panyn; Penseco; St. Ives; Trus.	U. Manager, Trans.
	isles of Suilly.	
Bodmin-Democr sub-division	Rurel Districts: Bernsteple; Bideferd; Cercelford; Dufwecon; Holswortly; Launcetton; Okaharmson; South Molton; Stretton; Torrington; Wadebridge; Wilfilms.	Bernstole: Bideford; Bodnin; Bude; Cemilland; Missonske; Leureceson; Misehand; Okehongson; Wodelandge.
	Urben Districts : Buda-Stretton ; lifracombe ; Lyncon ; Minehead ; Northern ; Pedatow ; Watchet.	
	Meriolpel Beroughe: Bernsteple: Bioleford: Bodmin; Greet Yorlington; Leuteeston; Okehampton;	

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n of civilian	
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Numerical distribution of civilian population, 1964 by age and sex		Meles
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Females	65-59
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SOUTH WEST	**	980	1004	87.6	120 0	92	102.0	ī	1144
Northern	101-7	102.0	202	100.0	104.4	2	96.9	198	102-9
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Brissl-Severnida	ž	102-0	100-8	101 6	108-7	9	100-0	101	108.7
North Witship	1114	103.6	976	100 3	102-2	1004	914	7	9-98
Cantral	i	626	100 0	990	126-7	2	102-0	4	116.3
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Southern	og	80 4	103-4	978	137-0	8	1082	716	134-7
Saster-Techny	8	72	103.4	125	169-8	8	112-2	80-8	1481
Sympath Avea	101.7	616	101-7	97.6	120 0	8	102-0	99.4	108-7
Western	000	89.4	1061	898	1400	8 7	109-2	7	129-8
Vost Committee	120	4 16	1017-1	200	133.0	80.00	105-2	7.2	1250
Posteria-Domesor	80.0	37.0	1061	076	148.9	88 4	102-1	910	133.7

Proportion of population of England and Wales and of Great Britain resident in the South West Region,

1821-1964

		Pops	lation of South Wee	Esonomia Plenni	ng Region	
Year		Enumerated			Crutius	
	No. 1000	% of population of England and Wales	% of population of Great Britain	No. 1000	% of population of England and Wices	% of propulation of Great Britisis
1	2	3	4		6	7
1621	1,759	14.8	12-6			
641	1,983	14-3	12-2			
641	2,173	13.7	11/7			
651	2,284	12-6	10-9			
881	2,323	11-6	10-0			
1.671	2,415	10-6	10-0 8-3 6-2 7-6			
1651 1661 1671 1691	2,420	0.0	62			
1991	2,460	0.6	7.6			
1901	2,463					
911	2,668 2,728	7-6 7-3 7-1 7-0 7-1	7.0			
921	2.750	7.0	0.7			
1001	2.854	4.2	0.0			
	2,780 2,854 2,784	4.1	9.9			
939		7.5	0.2			
1861		7.0	7 0 67 66 64 62 63	3.319		
961 961 964	2,493	7.6	0.0	3,329	7-6	09
964				3,564	7.6	0.5

The figures of column 2 are the contain a numerated populations (except 1000). The figures for years upday to 1601 as a foreign expense of years of the figure of the company of the figure of the register of the column of the figure of the column of the c

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APPENDIX		ď

Panned

Natural

						ACTION PARKS			
Ares	Mid-your driebus population No.	S of regional total	ź	×	á	ź	á	#	Mid-year dallien population No.
GREAT BRITAIN	48,807,000		2,240,000	;	1,673,000	387,880		210,000	81,047,020
SOUTH WEST	3,281,100	100-0	200,200	:	77,200	24.100	13,100	02,800	3,441,330
Northern	1,441,900	44.2	118,700	85	22,500	10,000	12,100	41,900	1,550,500
North Glaucesterdhire	388,100	114	30/300	2.0	15,300	2,000		11,700	418,900
Britiol-Severnida	288,200	28.03	46,300	0	22,700	5,800		18,400	846,100
North Williams	254,000	24	41,300	16.2	14,500	1,300	13,100	11.800	295.500
Central	879,600	20.8	20/100	Z	17,200	90015		28,200	723,900
Wellogton Westbury	211,900	50	15,300	22	2,300	1,000		8.100	223,300
South Task	487,700	14.8	34,900	22	11,400	3,600		20,100	202,800
Southern	208,500	17 00	28,900	6	3300	6200		19,300	737,400
Euter-Torbay	391,400	120	21,900	8.5	-3300	2,500		22,900	413,360
Pyrouth Aesa	317,500	88	0700	21	7,800	2,400		-3,600	324,100
Western	431800	13.2	2,400	9	1,000	37300		-1,800	433,400
West Carrwell	232,600	Σ	3,600	2	300	1,700		1.200	236,400

Civilian Population Changes, 1961-64 APPENDIX

	1961		Total change		Matural	Estinated gain from Armed Focus	Plemod	Balance	91	1961
Ann	MASS year configure population No.	% of regional total	æ	*	ź	á	Man	ď	Mad-year civilian poprahilipo No.	3.82
GREAT BRITAIN	\$1,047,030		1,272,000	22	353,500	14,000		225,000	62,319,000	
SOUTH WEST	3,461,330	1000	122,500	90	46,000	3,400	+6,500	65,930	3,583,800	9
Northern	1,540,600	1/59	65,200	4.2	33,100	1,800	+4,500	25,000	1,625,800	\$
North Gracestershie	418,800	124	18,100	43	8,910	400		8,800	436,700	ž
Ristal-Sevensida	848,100	24.4	24,300	5.9	14,700	005	+ 800	7,500	830,400	70
North Willships	238,500	9	22,800	2.2	006'6	300	+4,700	0700	318,700	
Central	728,500	21-1	27,800	9.6	006'8	200		17,300	757,700	22
Walington-Watbary	227,300	9	0,300	93	3,300	200		4,500	235,600	
South East	502,000	12	19,500	9.0	6,000	900		12,400	822,100	2
Southern	737,400	21-3	22,000	30	4,100	300		17,200	759,400	2
South-Torbay	413,200	11.0	15,460	3.7	-100	994		18,100	428,700	12
Plymouth Area	324,100	4	6,900	2	4,200	300		2,100	330,700	
Westeam	428,410	12-6	7,500	2	900	400		6,200	440,900	12
West Cornwill	236,400	9.0	4,800	3.0	700	200		3,900	241,200	۰
Bodmin-Europe	187,000	5-7	2,700	1.6	300	300		2,500	159,700	
Value 1. Floams, refers to food suthacity areas as considered in 1904.	at being as constituted in	1304								ı

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	dS and over	ų.	144,360	20,400	6,250	1,350	3,900	900	5,400	1,200	4,200	2,900	4.200	1,000	2.900	1,600
			+	+	+	+	+	+	+	+	+	+	+	+	+	+
		yt.	14.7	14.9	17-5	29-4	180	18-1	187	13.6	18-7	12-2	192	90	8-2	13.0
Males	16-81	ú	802,500	96,400	28,100	8.500	14,300	6,300	12,100	3.300	2,800	10,200	7,000	3,200	8,000	3,300
			+	+	+	+	+	+	+	+	+	+	+	+	+	+
		×	- 12	- 38	2	9	*	- 64	- 74	4.	86 -	90 -	- 24	-14.5	- 92	9.9 -
	12	ú	122,800	25,500	4,300	900	8,800	4,500	11,100	003	10,100	12,500	1,700	10,800	7.800	2,100
			1	1	+	+	+	1	1	1	1	1	1	1	1	1
		м	113	91	141	7	9.0	200	132	136	130	8	3.6	7	3+	30
Secth secret	0-14	No.	+1,243,000	78,800	45.300	12,600	14,900	17,800	19,400	8,200	13,200	10,200	6,800	4,400	3,100	1,300
			1	+	+	+	÷	4	+	+	+	+	+	+	+	+

∞ ...

Changes in age and sex structure of population, 1951-61

			Ferniss						
Area	15-44		60-39		00	60 and over			
	W.	×	Mer	×	No.	×		No.	×
GREAT BRITAIN	502,109	- 67	+388,600	3.6	+ 710,100	17.8	+2,	+ 2,743,100	:
SOUTH WEST	- 22,403	. 33	+ 27,108	9 8	+ 61,20	17.6	+	+ 189,100	3
Northern	+ 3,500	1-2	+ 12,802	6.7	+ 23,600	18-7	+	124,200	9.6
Nach Glossesheites	+ 833	9.	+ 4200	11.6	+ 6,000	160	+	34,500	:
Emittel-Severnide	- 3,400	- 20	+ 6,200	6.0	+ 13,200	10.2	+	000'00	7.5
Meets Williakes	+ 6,100	11.6	+ 3,100	12-7	+ 4,300	19-0	+	32,800	12:2
Central	- 3,700	. 87	1,500	10.0	+ 13,750	188	+	43,260	9.0
Wellington-Westkery	- 1,000	6.2 -	+ 1,600	ž	+ 3,600	191	+	14,300	
South Cast	- 2,750	97	+ 5,500	124	+ 10,100	200	+	22,000	90
Southern	- 12,000	- 62	+ 5,300	2	+ 16,000	19.7	+	25,730	33
Exetar-Teebuy	- 6,350	- 76	4 3,700	8-2	+ 11,830	22.6	+	25,230	9.9
Physoath Area	- 6,750	9-9-	009'1 +	4.0	+ 4,930	161	1	1,500	- 4.8
Western	- 10,250	-114	+ 1,700	3-6	+ 7,000	144	+	1,500	43
West Cornwall	- 4,900	88 -	+ 1,500	85	+ 3,900	16.4	+	4,000	20

2,900 - 1-4

+ 3,400 14.8

+ 200 0.0

- 6,300 --133





Regional, sub-regional and sub-desiration climates of the sumber of encyloyers in employment relate to the situation in the semicoyment relate to the situation in the summer of each year although they also include some people who worked at other situations in the year to write employed nor registered as unanterloyed at relative to translate than present the association employment in a rate. Quantity software of the too member of employees in each region has too consented for periods since upon 1890 but no consented for the consented of those to consented or these to consented or the consented or the contraction of the consented or the contraction of the c

The estimates record the number of employees and not the number of jobs : double or metitole job holding is lignored, and no distriction is made between full-time and part-time employees or imagular or occasional workers.

The main categories of workers evoluted from the estimates are employers and self-employed, serving members of HM Forces and some abudents doing veosition work (Y shown as such on their National Insurance careb).

APPENDI	2
10	

Distribution of Employment, mid-1965

South West Region?

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Industrial Order	Employees in employment 1985			In South West	Northern	Central sub-	in Southern sub-	in Wasten	In Great
	Males 1000	Fameles 1000	Total 1000	Region†	ont region	region†	region %	mb- region %	Brissen %
Agriculture, forestry and fishing	49.0	76	53 9	41	20	7-2	3.5	8.2	2-1
Mining and quarying	18-4	11	176	10	0.7	0.8	14	67	2:7
Total: EXTRACTIVE INDUSTRIES	624	90	71.4	64	3-0	8-1	46	13.0	48
							_		

0.8 1.0

48

0.6 1.2 0.6 0.6

0.6

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These personne enduals Facility which their commits the South Wissam Shaelerd Region. It is not prescribed to adopt the South West variables to include Funds cannot be include Funds cannot be included from the South West contained Principal Region and Embedded and Committee C à per cert 43 per cert 66) per cent

17-6 13 0.3 0.2

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11-6 31-6 6.2 24 2.9 2.8 2.5

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38-2 28-4 22-5 12-0 39-2

ithampton Library Digitisation Unit

40

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1-3

Proportion of total employment

0.6

03

4.2 6.6

10 08

0.8

Food, drink and Metal manufacture Fog negron and

Vehicles

Textiles

Metal goods not

Leather, leather

Bricks, portery. glass, cement, etc.

Clothing and footween

Tember, function, etc.

Paper, printing and publishing

Other manufacturers

MANUFACTURING 291-0

Distribution of Employment, mid-1965

	804	th West Reg	pen†		Pre	operson of a	osal employme	ne	
Industriel Order	Emplo 1965	yees in emp	kyment	ra South West	in Northern	in Central	is Southern	in Western	in Great
	Moles 1000	Females 1000	Total '900	Region?	region %	region†	region %	eus- region %	Bosse %
CONSTRUCTION	107-7	4.6	112-2	9.5	7-6	8-6	9-3	9-5	70
Ges, electricity, water	26-1	3-7	29-8	2:2	22	1-8	26	24	14
Trereport and communication	77.0	13-3	80 3		67	8-7	8-0	7.0	76
Clubbutive trades	67.0	93-7	181 0	13/7	12-7	12-5	15.6	10.0	12 6
Insurence, benking, finence	144	12-6	27:7	21	20	14	2:7	2.0	20
Professional and scientific services	55-7	100-1	164-6	124	12:2	13-9	12.0	11-6	10.6
Macelloneous services	62.6	87-7	150-3	11-9	8.6	11.0	152	17-9	
Public administration	73.0	23 · 6	90-6	7.0	6.7	9.7	7.2	62	5-0
Total: SERVICE INDUSTRIES (Construction not included)	310 6	344 1	740-7	EE 4	81-0	50-6	60.0	635	420
TOTAL: ALL INDUSTRIAL PROFESS									_

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These strakes welface Probe which disk weight the South Women Standard Region. It is not provided to educat the South Miles of south the South Miles of the South Mil

Scholar areas Scholar Indicates Manufacturing Indicates 43 ps 11 T

Numbers of self-employed, 1961 Census

		Asie	i .	Female	
Aree	No.	% of econ- omically ective population	No.	% of secon- orizoitly setting population	Total
ENGLAND AND WALES	1,214,210	8-4	302,080	40	1,516,370
SOUTH WEST*	127,870	12.4	25,740	8-0	163,610
Gloucesters/Ne	25,250	8-1	5,340	30	20,620
Withhre	11,810	8-5	2,000	41	13,900
Dorset*	9,580	14-7	2,020	84	11,500
Somemet	23,630	13-1	4,820	8-1	28,450
Devon	38,450	15-3	7,650	8-0	44,130
Connect	21,080	20-6	3,820	11.6	24,900

Changes in employees in employment, 1960-64

			louth West Its hange 1960-	igion (see rot 64	e 2)		Great Bi change	stein 1960-64	
Industrial Order		1000			%			%	_
	Males	Femal	io Yotal	Malas	Farnolo	s Yotal	Males	Female	Tota
Apriculture, forestry and	_			-			-		_
taking	-2-8	+06	-93	-16	+ *	-14	-17	- 4	16
Mining and quarrying	-01	+0.2	+01	- +		+ +	-15	- 54	-14
TOUR EXTRACTIVE					_				-
INDUSTRIES	~8.8	+07	-92	13	+ 8	-11	16	- 44	-15
Food, drink and tobacco	+14	+08	+28	+ 5	+ 34	+ 41			_
Chamicals and albed inchables	-01	-04	-06	- 14	7.41	7 61	+ 2+	MI	+ 2
	-02	+01	-01	7 17		- 2		- 4	- 4
Engiteesing and						- 4	+ 1	+ +	101
electrical goods	+114	+61	+17-7	+20	+91	+23	+ 7	+10	
Shipbuilding and				1		1.88	4.7	+10	+ 4
reares organishing	-14	-01	-14	- 0		- 1	-20	-11	20
Vehicles	-7.7	-1-1	-0.0	-11	-12	-11	- 44	- 44	- 4
Metal goods not								- 41	
alsowhere specified	+26	+01	+24			+60	+ 0	Nil	4.4
Leather, leather goods and tur	+29	-02	+2-1	+32	- 24	+16	- 24	-12	- 11
Clothing and footness	-01	-91	-02			4	- 77	- 14	- 5
Broke, pottery, cerner and	+08	-0.2	+00	+10	- 1	+ 24	- 64	~ 6	- 6
aless	41.0								
Timber, furreture, etc.		+01	+1-1	+12		+11	+ 6	- 4	4.4
Paper, profing and publishing	- 02	No	-02	- 19		- 1	1 + 1	- 3	Ni
Other manufesturing	0-1	-0.5	-06	- +	- 44	- 2	4.4	+ 2	+ 4
industries	+08								
Total MANUFACTURING	108	+0.5	+13	+ 7		+ 9	+ 2	+ 34	+ 7
INDUSTRIES	+10-9	+58	+158	+ 4	+ 0	+ 44	+ 14	- 1	+
DONSTRUCTION	+15-6	+05	+160	+17		+18	+13	+18	+14
Sea, electricity and water	+24	406	+24						
	41.3	+00	+14	+13		+14	+ 8	+17	+ 9
	4.52	-84	417/7	1 14	+.1	+ 14	- 1	+ 2	-
nsurence, barbing sed brance	419	+21	+5.0	+ 6	+11	+ 5	+ 84	+.7	+ 6
	1	1.01		+15	+34	+23	+12	+20	+16
clererie services	+75	+18-2	1.26.7	-17	+ 22				
discollars out as twose	+86	+4.0	+12.6	+16	+ 22	+20	+17	+16	+17
*kblio edivinistration	+16	+13	+31	+ 24	+ 6	+ 3+	+15	+ 6	+10
otel SERVICE	-								
INCUSTRIES	+280	+30 R	1.668	+ *	+12				-
Construction not isoladed)	1			+ 8	+12	+10	+ 6	+10	+ 8
otal: SERVICE									
MOUSTRIES	4445	+37.3	+81 B	+10					
(noticing construction)			7916	+10	+124	+11	+ 8	+11	+ 2
etal ALL INDUSTRIAL	+46.6	4236	1814						
ORDERS					+11		+ 24		+ 4

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1965*	
ovment by major sectors. 1	
maior	
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of employment	
of	
Distribution	
APPENDI	13

, 1965*	
10	sch area
of employment by major sectors	employment in eac
ment by	n of total em
employ	uployment and proportion of total en
ution of	1 employment
Distrib	Employees ir

	,		Employees in employment	000.
		OSSTITUTE OF THE PROPERTY OF T	Proposition of total emphyrment to sees	×
Employees in employment and proportion of total employment in each area		Services and o	Employees in amplicyment	900.
otal employme	ocrito sections	fearo	Propertion of total employment in area	st.
oportion of to	Mejarecco	Burgoperage	Exployees in errployment	090.
yment and pr		anactive	Properties of total employment in one	
yees in emplo		Din.	Employees in employment	000
Emplo				

	0000312000	Proposition of total amployment in sees	×
	Services and construction	Employees in employment	000
ocrito sections	found	Proportion of total employment in anse	ue.
Mejarecco	Britisherski	Exployees in errployment	030.
	Shipothe	Propertien of tetal employment in one	8
	eng.	Employees in employment	000
Γ			

Maint occo	somic sectors	
Mazufa	fund	å
Erpisyson in erpkynant	Propertion of total employment in one	Employe
030.	×	00.
48.7		13,150.0
9118	95	158
911-9	8	330-4

	28	Engloye	o,	18,150 0	158	330-4	
nomic sectors	Bound	Proportion of total employment in one	×		8	2	a

	Services and	001021100
Symbol	Employees in employment	Proper total or stress
	000	
	18,150 0	49
	158	2
	350-4	25
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8	2818	
9	63.2	
	100 4	8
	0	

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physical	×				B	\$	8		8	×		E	*	
n total ampleyana		19	2	2				8			22			R
s ₁₆					*	86	3.2		0	2.4		2.9	194	

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1752 3753 1232 241.8

2000 146.03 147.0

588.2 1001

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Share of regional employment within sub-regions/ divisions by maior sectors, 1965, and comparison with

compa	Bennelle
5, and	
divisions by major sectors, 1965, and compa civilian population and area*	A sodar
divisions by major sectors, 19 civilian population and area*	Proportion of regional and ormani is such usday
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civilia	_

	Propertion of	
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1	\$ 8 v
	565

Services and construction

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Changes in employees in employees in employees in employment, by major sectors,in 1960-64*

Acon	Extractive 1900	Menufecturing 1000	Services and construction 1000	Total 1000
Northern	-36	+9-1	+41 0	+49-5
North Gloucestershire Bristol-Swierriside North Witshire	-1-0 -0-7 -1-0	+2 6 +5 7 +0 8	+ 8-2 +25-1 + 6-4	+ 86 +31-4 + 62
Control	-36	+1-6	+18.1	+14-2
Wellington-Westbury South East	-11 -24	-0.5 +2.0	+7-2 +8-8	+ 54 + 84
Southern	1-0	+66	+15-2	+18-0
Exister-Turbay Plymouth Area	-1·1 -0·6	+1·7 +3·3	+8-8 +4-3	+ 9-6 + 9-6
Western	~0-6	+04	+8-9	+87
West Cornwell	No	No	+4:2	+ 4-3
Bodmin-Exmoor	change -0.6	change +04	+4-7	+ 44

NOT DECIDE OF COMMENT, some below may gifter from the same of their components.

×	× 1	
,	Proportionate changes in employment in major	
_	sectors, 1960-64*	

							Per cast
		Welen	Wedge and forcefor			Persons	
Area		Mejor aco	Mejor accounties sectors			Major economic sectors	
	Sattestive	Mandadage	Services and constitution	Macton	Menchaning	Services and construction	Al sessors
CREAT BRITAIN	-18	7	*	*	7	+10	4
SOUTH WEST	Ŧ	ť	Ę	+1	*	+12	+11
Morthern	-13	#-	+12	+3	+25	+14	+10
North Googsutarabee	41-	7	7	90	7	*	+
Bridge-Sawtmarde	op T	+	+13	9	7	116	=
North Willshipe	-18	70	+11	*	7	+	+12
Central	31	+25	=+	4	7	+14	+11
With egiton-Weatbary	-13	#	##	9	7	+10	*
South East	-16	+3	e+	9	+	+13	+12
Southern	-12	+10	4	*	8+	:	+12
Engler-Torbay	-11	+3	+	+	+10	9	+
Plymouth Area	†	11	7	7	19+	+11	+17
Western		4					

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operate +4 17 Industrial distribution of 1965 employment in manufacturing units which had moved into South West Region since the beginning of 1945

Industrial Order	1965 employment in units which moved into South West Region since 1945 No.	Approximate persentage of new unit imployment to total regional engineers in relevant industry. %
Food, drink and tobacco:		
Food and drink (7)	900	under 5
Characals and elbed industries:		
Cherécals (6)	1,100	9
Metal mesufacture (3)		
Engineering and electrical goods		1
Mechinery, mechine tools, etc. (33)	6,200	11
Industrial plant, engines, etc. (2) Optionice and small erro (1)		
Scientific instruments, wetches, clocks (8)	1,700	16
Radio and other electronic apprentus (12)	3.800	26
Other electrical angusering (5)	1,900	11
Shipbuilding and marine engineering (1)		
Vehicles:		
Motor whicles, etc. (4)) to
Other vehicles (meinly sirpert and excepace) (4)		110
Metal goods not elsewhere specified (14)	1,100	
Testifes (merely mon-mode fibrus) (3) Leather, leather goods and fur (3)		
Leather, leather goods and rul (a)		
Clothing and Soctaver:		1
Clothing (14)	2,200	15
Footwer (1)		
Bricks, pottery, pleas, cament, etc. (7)	600	upder 5
Timber, furniture, etc. (7)	1,100	6
Paper, printing and publishing (7)	100	under 5
Other mersufacturing industries:		
Pleasics (6)	500	15
Other menufecturing inclustries (4)		5
TOTAL MAID	35.700	

. Figures not publishable. Pigures in breskets decree number of 'movement' annia in operation at the and of 1500.

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Earnings of Men Manual Workers in Selected Industries, 1964 and 1965

	Weekly eenings in	South West Region
Industriel Coder	% of United Kingdom evenings	% of regional everage
Food, drink and tobecoo	99.1	50-0
Chemicals and altied industries	103-6	114.4
Metal manufactions	97-2	111 8
Engineering and electrical goods	24 8	100-4
Shipbuilding and masss angineering	22 0	105-6
Vehicles	93.6	117-6
Metal goods not alsowhere specified	95-1	102.6
Teatiles	97 8	94-4
Leather, leather goods and for Clothing and footwear	98-3	82-3
Excise pottery, pleas, pement, etc.	109 0	102-2
Second, pottery, greek, cement, etc. Timber, furniture, etc.	850	101-4
Pager, printing and publishing	85.7	109.7
Other manufactuating industries	87.0	106-9
All manufacturing industries	801	105 8
Mining and guarrens (expect cost)	49.5	102.0
Construction	92-1	98.1
Gas, electricity and water	86-7	97.0
Transport and communication*	86-0	101 3
Corten miscellaneous services!	53-6	63-4
Public edesinatesion\$	1003	81-0
All the above including manufacturing industries	53.7	100-0

(Debuths) implayed in introde government annea han, in uppropries bee included in the Epimer for industries upplies in general, aborden, demands, arrong, contractors, respect and convenience. Public editionations from overs or from employed not recipilities when federal and review and 6 employed not recipilities when federal editional and federal and f

	Total			8,21		8	ä	4	×	×		180		21	200	2	+	Ř	a	38	35		,		10				0,650	ı	15,068		200,000
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	Venage	Imports	1000	200													2	1								1	l	g			1,130		82,489
	Constinues	Cutwands	19		*							11	1	901	4				,	N					,	,	ı	325			417	Ī	1,957
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PPENDIX

Earnings of Men Manual Workers in Selected Industries, 1964 and 1965

	Weekly eenings in	South West Region
Industrial Order	% of United Kingdom everage	% of regional average
Food, drink end tobeson	984	88.6
Chemicals and ellied industries	103-6	114.4
Metal manufecture	97.2	
Engineering and electrical goods	94.6	102-4
Shipbuilding and manne engineering	29-0	105-6
Vehicles	22-4	117-6
Metal poods not elsewhere specified	95-1	102.6
Textiles	97.6	96-4
Leether, leather goods end fur	20-2	92.8
Clothing and footwerr	109-0	102-2
Bricks, pottery, gless, cement, etc.	93-0	101-4
Timber, furniture, etc.	89-6	21-6
Paper, printing and publishing	55-7	109.7
Other manufacturing Industries	97-9	105-9
All manufacturing industries	26-1	109 6
Minaro and outervino (expest coal)	56-3	102.0
Construction	10:1	954
Gas, electricity and water	80.7	92.0
Transport and communication*	50-0	101:0
Cortain responding pour services?	83.8	83-9
Public administration:	100 8	61-9
All the above including manufacturing industries	53.7	100-0

Distance employees in absorat previously environ hervies here, as reproperties them included in the figures for industries such as engagement and building, themselfs princing, communication, transport and communication. Training administration levers in them employees not assign to effect industries and pervious and it employees in central government assembly applications.

Dwellings Completed, 1945-65

Acee	Civition passistion, 1999	Number of dwellings completed 1945-65*	New dw 1,000 p 1945-6	refirgs comple spulseen s	ted per
	1000	1000	Total	Local eatherity	Private enterprise
SOUTH WEST	3,824	381.4	105	52	53
Northern North Skoucestershire Briggel-Severalds North Witshire	1,849 446 679 326	189-0 80-8 80-7 40-0	111 114 105 128	67 64 65	54 60 60 66
Centre? Wellington-Westbury Stock East	767 239 628	83 3 25-5 97-8	108 107 110	52 59 49	56 45 61
Routhern Exiter-Torbay Plymouth asse	768 436 334	79-6 46-1 33-6	104 107 101	80 43 69	84 64 42
Western West Conwell Endmin-Earnope	444 244 209	36-6 20-4 16-1	78 84 76	38 41 35	41 43 40

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	Leest with	à			Domestic america 1961	19es 1961			Dwellings with	90.0	Eximated Cwellings over	200
	dwellings as at 1965	uelt.	Owelleys webook pood water	rhose	Dwellings without fixed bath	Dect	Owelhops without water closes	apport	Apail 1st 1955	H 100 00	100 years old in 1561	1361 at 1361
e.	ź	% of solating about	s.	% of souting stock	ą	% of existing stock	ź	% of saddleg smock	No.	S. of ensiding about	N.	S of existing about in 1966
ENGLAND AND WALES	823,719	2	101,701	2	3,084,381	21.7	939,510	1,	2,418,822	6.91		3
SOUTH WEST	23,300	50	36.300	*	213.400	19 6	32.400	9	170.100	16.0	232,200	19.6
Martham	12000	2.3	10,903	20	69.500	17-9	34.000	2.5	60,233	12.2	78,600	101
North Observation	3,500	5.6	6,300	ź	27,900	21.6	16,100	11.7	24,703	210	18,300	134
Brazol-Severnaido	6,333	23	2,100	1.2	40,500	16.7	10,700	Ź	17,703	3	47,000	3
North Withhis	2,200	22	2,500	2.4	17,200	180	8,000	:	14,000	2	13,300	124
Centrel	4,300	1.7	7,200	5-7	43,400	10.6	23,300	100	37,200	3	66,933	230
Wellawar-Westberr	1,300		2,200	7	14,930	88	6,600	83	14,400	191	22,450	95-6
South Fast	3,100	9.	6,000	3.1	28,930	176	16.700	10.0	22.000	19-7	22,400	17:3
Scothern	3000	7	6000	52	40,200	17.2	12,933	9.0	28,490	0	43,400	17.2
Fuster, Toehey	1,400	10	3.500	20	22,930	169	7,930	9	16,000	106	18,300	13.1
Phrough Area	1,600	9.	2,500	5.2	17,400	17.0	2000	6	11,400	116	24,100	22-8
Western	4,000	5.0	12,500	9.8	43,900	200	22,409	20	46,300	29.7	62,400	34.2
West Cornery	2,300	24	6,100	10-1	20,000	33.6	14,200	17.0	28,930	31.2	28,300	31.0

25,100 27.0 08530

1230 12.7

20-4

** 6440 5.8 1,700

1964
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	1981 milmend page (Agon
	1964-81 entranted social change
	1994-81 sedwatod Ad seguiton
	1964-81 estimated metansi horessau
	1984 mil-year cwhin population
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population	Properties of regions total	,
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plante	×	1
1964-81 astronologi social change	400,	
1994-81 definated Ant improce*	200	
1984-81 enfirming natural horises	48	
e sopressor	Proportion of regional torul	****
1944 m	Na. 700	100
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Illustrative list of 100 of the larger industrial firms, etc., in the South West Region

Industrial Order	Nerse of Flore	Industrial Circles	Name of Flore
Mining end quanying	English Cirys Lovering Pachin & Co. Ltd. National Coel Board	Engineering and electrical goods (continued)	Spencer (Melisham) Ltd. "Square D" Ltd. Standard Telephones & Cables Ltd.
Feed, chink and tobacco	Bowyers (Whaters) Ltd. Breens (Food Preducts) Ltd. Breens (Food Preducts) Ltd. Breens (Food Preducts) Ltd. Cersons Ltd. Coronic Ltd. Covered Ltd. Co		Stochen & Pitt L35. Synchan & Heeshev Ltd. Tecklenin (Engineering L35. Thrissell Engineering Co. L35. Wellverthy Ltd. Westinghouse Beloc & Signal Co. L35. West West L35.
	J. S. Fry & Sons Ltd Hole-Trent Colum Ltd. C. & T. Horsis (Color) Ltd.	Shipbuilding and matce engineering	Ministry of Defence (Nevy Dept.) Silley, Cox & Co. Ltd.
	W.D. & H. D. Wills Persons Beharines Ltd. James Rebertion & Sees Preserve Mensiferouves Ltd. System Ltd. Urapeto Commerce Ltd. T. Well & Sono (Inc Chem.) Ltd. Wilst Country Benerics Ltd.	Wholes	Bristol Amoyet Lad. Bristol Commercial Vehicles Ltd. Bristol Commercial Vehicles Ltd. Bristol Holly Engines Ltd. Bristol Hall Woolshops Cernox Ltd. Dowled (O'newood) Ltd. Downy Hotol Ltd. Downy Feld Systems Ltd.
Chemicals and silled industries	B. P. Fleetes Ltd. Billish Drug Houses Ltd John Hell & Son (Birstel & London) Ltd. Improvid Chemical Industries Ltd. Ministry of Defence (Army Dept.)		Right Refueling Ltd. Normalor Ltd. Pressed Stell-Poher Ltd. Teleholet Ltd. Teleholet Ltd. Westlend Akorett Ltd. Westlend Akorett Ltd.
Metal menufacture	Wellington Weston & Co. Ltd.	Metal goods not elsewhere specified	The Metel Box Co. Ltd.
West Benzadite	Inserel Smelting Corporation (N.S.C.) Ltd.	Textiles	Fox Brothers & Co. Ltd.
Engineering and electrical goods	Associated Electroni Industries Ltd. Asteroe Brd Ltd.		John Heathcoat & Co. Lpt. 1.C.J. Pibres Lpt.
	Brecknett, Dolmen & Rogers Ltd. Bryce Barger Ltd. Dowty Group Services Ltd.	Leether, leather goods and fur	Clark, Son & Morland Ltd.
	Dowly Mining Equipment Ltd. E.M.J. Electronics Ltd. Fielding & Plate Ltd.	Clothing and footware	The British Van Hauson Company 11d.
	General Engineering Co. Ltd. Gloster Sero Ltd.		G. B. Betton & Sons Ltd. C. & J. Clark Ltd.
	Hoffman (Gloupester) Ltd. Holmen Bros. Ltd.	Timber, furniture, etc.	Featones Direction Ltd.
	The Horstmann Geer Co. Ltd. R. A. Lister & Co. Ltd. Novine Moustrags Ltd. Newman Hersfer & Co. Ltd. Newman Industries Ltd. Percell & Sons Ltd. Percell & Sons Ltd. Percell (Yes) Ltd. Percell & Sons Ltd. Percell & Sons Ltd.	Paper, printing and publishing	Ashron Continens Ltd. The Bestoll United Press Ltd. Coloidense Ltd. Mention, Son & Hell Ltd. Purnell & Sore Ltd. E. S. & A. Robinson Ltd. St. Ame's Board Mill Co., Ltd.
	The Plessry Co. Ltd. Ranco Controls Ltd. Rank Bush Marphy Ltd. Rank Xeros Ltd. Snyths Industries Ltd.	Other mersulecturing Industries	J. Allen Rubber Co. Ltd. Aven Rubber Co. Ltd. Breish Cellophene Ltd. Downy Seek Ltd. The Kleen-e-on Breah Co. Ltd.

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Housing need and land availability, 1965.

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